S
331.12
Llms
1983

...na State
...pational
...nformation
Coordinating
Committee

MONTANA
SOICC

PLEASE RETURN

...LLECTION

JUL 2 5 1983

MONTANA STATE LIBRARY
1515 E. 6th AVE.
HELENA, MONTANA 59620

SUPPLY

WORKERS

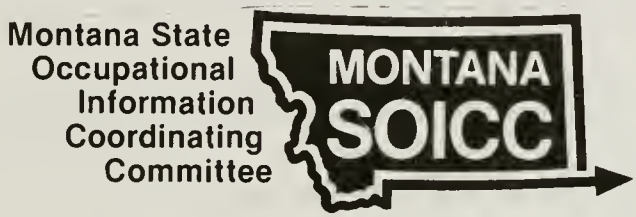
DEMAND

JOBS

MONTANA SUPPLY / DEMAND REPORT

MONTANA STATE LIBRARY
S 331.12 L1ms 1983- c.1
Montana supply/demand report /
3 0864 00045203 0

MONTANA SUPPLY/DEMAND REPORT



COMMITTEE MEMBERS

T. Gary Curtis, Administrator
Job Service Division
Department of Labor and
Industry

W.R. Donaldson, Administrator
Rehabilitative Services
Division
Department of Social and
Rehabilitation Services

Dale A. Harris
Assistant to the Director
Department of Commerce

Carrol Krause, Deputy Commssioner
for Academic Affairs
Office of the Commissioner of
Higher Education

Gene Christiaansen, Deputy Supt.
Vocational and Education Services
Division
Office of Public Instruction

Chester C. Rusek, Administrator
Centralized Services Division (SESA)
Department of Labor and Industry

Robert N. Arnold, Program Manager

May, 1983

ACKNOWLEDGEMENTS

The information contained in this publication would not have been possible without the joint efforts and cooperation of the Montana SOICC's Technical Steering Committee (TSC). Our TSC gave overall guidance and solved many problems during the development of this first statewide supply/demand report. The TSC consists of representatives from the SOICC's six member agencies and are recognized for their continued support. The TSC includes:

- Bob Rafferty, Chief, Research and Analysis Bureau, Centralized Services Division, Department of Labor and Industry
- Jim Foley, Area Coordinator, Job Service Division, Department of Labor and Industry
- Paul Dunham, Director of Research and Services, Office of the Commissioner of Higher Education, University System
- Joe Angell, Program Manager, Special Projects Bureau, Rehabilitative Services Division, Department of Social and Rehabilitation Services
- Bob Ruthemeyer, Specialist, State Plan/Research/Reports, Department of Vocational Education Services, Office of Public Instruction
- Larry Douglas, Economic Development Coordinator, Economic and Community Development Division, Department of Commerce

Special thanks are extended to past Technical Steering Committee members Scott Buswell (formerly with the Employment and Training Division) and Dennis Sheehy (formerly with the Office of Public Instruction).

As mentioned in other areas of this report, the Montana SOICC was established in 1978 by federal legislation. J. Sue Bartlett, Montana SOICC Program Manager from 1978 to 1982, provided expert leadership and guidance for the implementation of the Montana Occupational Information System (OIS). We recognize her contributions to this product and sincerely appreciate her efforts.

SOICC Administrative Assistant, Fran Mares, assisted in editing, writing, typing, and clustering segments of the supply/demand report. Her efforts have contributed to a more refined product.

Table of Contents

Page Number

Points to Remember i

Introduction 1

Measures of Supply 2

OIS Data Base 3

Section I 4

- Supply Sources and Format 5-8
- Supply Organization 9-16
- Cluster List 17
- Montana Supply Report 19-83

Section II 84

- Demand Introduction 85
- Demand Organization 86-88
- Montana Demand Report 89-162

Points to Remember About the Montana SOICC

- The Montana SOICC is a Committee.
- The SOICC and its work are really an extension of each of our member agencies and their individual agency work.
- All of the SOICC's work is accomplished through interagency cooperation.
- The SOICC compiles data from many agencies, then processes and analyzes the data in a technically valid manner to produce information usable by program planners and administrators.
- The SOICC's work minimizes duplication between agencies and improves the availability of useful information (particularly important in these times of reduced budgets).
- The SOICC provides a formal structure that links the work done by education and labor agencies in Montana.
- The SOICC is responsible for designing, implementing and maintaining a statewide, comprehensive Occupational Information System (OIS) based on current supply (workers) and demand (jobs).

For Further Information Contact:

The Montana State Occupational Information
Coordinating Committee (SOICC)
P. O. Box 1728
Helena, Montana 59624 (406) 449-2741

Introduction

The Montana State Occupational Information Coordinating Committee (SOICC), was created by two laws, the Vocational Education Amendments of 1976 (P.L. 94-482) and the Comprehensive Employment and Training Act of 1978 (P.L. 95-524). The primary purpose for establishing this committee was, and continues to be, the development, implementation and maintenance of a comprehensive occupational information system based on supply (workers) and demand (jobs). This information will be used to support the planning process for education and training programs in Montana. This data, in conjunction with data from the Montana Career Information System (MCIS), is used to support the career planning, guidance, and job search needs of various target populations. The SOICC is made up of six agencies as listed on the inside cover of this report.

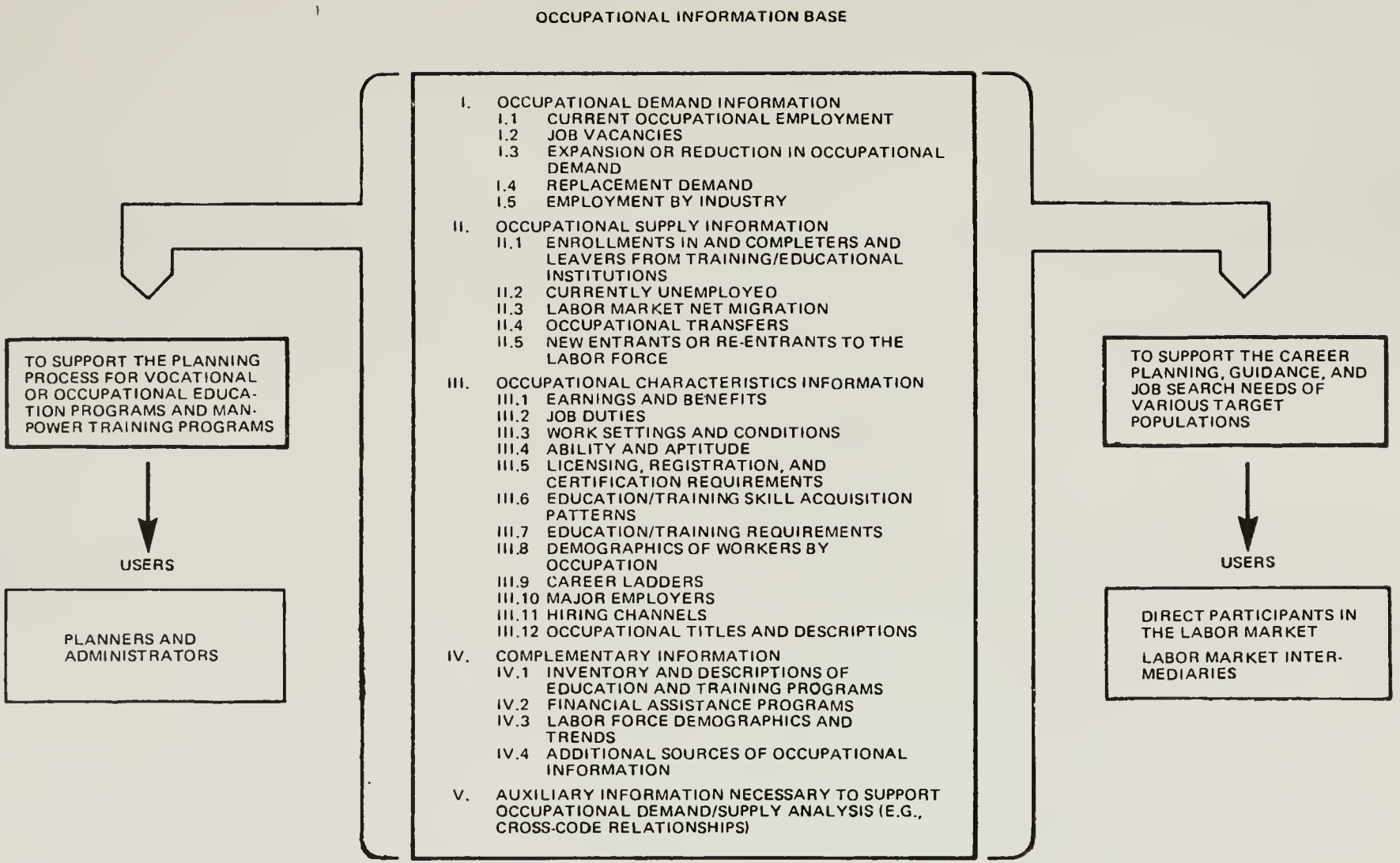
This report contains current information about the number of people being trained in various training programs and the number of people available for work throughout Montana. Data in the report are interfaced with the number of jobs currently filled, jobs expected to be open due to growth and replacement, and average annual job openings. The data contained in the report is explained in detail elsewhere in this publication. The information will indicate if there is a balance or imbalance between the available work force and the jobs expected to be open on a yearly basis. The information does contain limitations and should be used in conjunction with other planning data in order to develop training programs which should then provide the people of Montana with the necessary skills to fill tomorrow's manpower needs.

MONTANA OCCUPATIONAL INFORMATION SYSTEM

Measures of Supply

Public Secondary	Vocational Technical	Higher Education	Proprietary Schools	Vocational Rehabilitation	Employment Training Programs	Job Corps	ES Job Applicants
Code-1	Code-2	Code-4	Code-8	Code-6	Code-3	Code-5	Code-7
Measure: Available for Work	Measure: Program Completers	Measure: Degrees Conferred	Measure: Degrees Conferred and Program Completers	Measure: Program Completers Status > 18 Excluding 30	Measure: Program Completers in Termination Status	Measure: Program Completers	Measure: Applicants Active Any Time This Federal FY
Time Period: July-June	Time Period: July-June	Time Period: July-June	Time Period: July-June	Time Period: October - September (FFY)	Time Period: October - September (FFY)	Time Period: October - September (FFY)	Time Period: October - September (FFY)
Coverage: Statewide	Coverage: Statewide	Coverage: Statewide	Coverage: Statewide	Coverage: Statewide	Coverage: Statewide	Coverage: Statewide	Coverage: Statewide All JS Offices
Classification: Office of Education (OE) 6-Digit Code	Classification: Office of Education (OE) 6-Digit Code	Classification: Higher Education General Info Survey (HEGIS) 4-Digit Code	Classification: Office of Education(OE) 6-Digit Code	Classification: Dictionary of Occupational Titles(DOT) 9-Digit Code	Classification: Dictionary of Occupational Titles(DOT) 9-Digit Code	Classification: Dictionary of Occupational Titles(DOT) 9-Digit Code	Classification: Dictionary of Occupational Titles(DOT) 9-Digit Code
Reporting System: Manual	Reporting System: Manual	Reporting System: Mechanized	Reporting System: Manual	Reporting System: Mechanized	Reporting System: Manual	Reporting System: Manual	Reporting System: Mechanized (ESARS)

OIS INFORMATION BASE AND THE TWO MAJOR USES OF OCCUPATIONAL INFORMATION


OCCUPATIONAL INFORMATION BASE
I. OCCUPATIONAL DEMAND INFORMATION
I.1 CURRENT OCCUPATIONAL EMPLOYMENT
I.2 JOB VACANCIES
I.3 EXPANSION OR REDUCTION IN OCCUPATIONAL DEMAND
I.4 REPLACEMENT DEMAND
I.5 EMPLOYMENT BY INDUSTRY
II. OCCUPATIONAL SUPPLY INFORMATION
II.1 ENROLLMENTS IN AND COMPLETERS AND LEAVERS FROM TRAINING/EDUCATIONAL INSTITUTIONS
II.2 CURRENTLY UNEMPLOYED
II.3 LABOR MARKET NET MIGRATION
II.4 OCCUPATIONAL TRANSFERS
II.5 NEW ENTRANTS OR RE-ENTRANTS TO THE LABOR FORCE
III. OCCUPATIONAL CHARACTERISTICS INFORMATION
III.1 EARNINGS AND BENEFITS
III.2 JOB DUTIES
III.3 WORK SETTINGS AND CONDITIONS
III.4 ABILITY AND APTITUDE
III.5 LICENSING, REGISTRATION, AND CERTIFICATION REQUIREMENTS
III.6 EDUCATION/TRAINING SKILL ACQUISITION PATTERNS
III.7 EDUCATION/TRAINING REQUIREMENTS
III.8 DEMOGRAPHICS OF WORKERS BY OCCUPATION
III.9 CAREER LADDERS
III.10 MAJOR EMPLOYERS
III.11 HIRING CHANNELS
III.12 OCCUPATIONAL TITLES AND DESCRIPTIONS
IV. COMPLEMENTARY INFORMATION
IV.1 INVENTORY AND DESCRIPTIONS OF EDUCATION AND TRAINING PROGRAMS
IV.2 FINANCIAL ASSISTANCE PROGRAMS
IV.3 LABOR FORCE DEMOGRAPHICS AND TRENDS
IV.4 ADDITIONAL SOURCES OF OCCUPATIONAL INFORMATION
V. AUXILIARY INFORMATION NECESSARY TO SUPPORT OCCUPATIONAL DEMAND/SUPPLY ANALYSIS (E.G., CROSS-CODE RELATIONSHIPS)
TO SUPPORT THE PLANNING PROCESS FOR VOCATIONAL OR OCCUPATIONAL EDUCATION PROGRAMS AND MANPOWER TRAINING PROGRAMS
USERS
PLANNERS AND ADMINISTRATORS
TO SUPPORT THE CAREER PLANNING, GUIDANCE, AND JOB SEARCH NEEDS OF VARIOUS TARGET POPULATIONS
USERS
DIRECT PARTICIPANTS IN THE LABOR MARKET
LABOR MARKET INTERMEDIARIES

SECTION 1

Supply Sources and Format

OFFICE OF PUBLIC INSTRUCTION

SECONDARY VOCATIONAL EDUCATION

Supply Format

	USOE Code	USOE Title	Available	Source Code
	NN.NNNN			(1)
Columns	1-6	10-48	50-53	70

July - June (Due December 31)

- -

VOCATIONAL TECHNICAL CENTERS

Supply Format

	USOE Code	USOE Title	Available	Source Code
	NN.NNNN			(2)
Columns	1-6	10-48	50-53	70

July - June (Due December 31)

VOCATIONAL REHABILITATION

Supply Format

	DOT Code	DOT Title	Completers*	Source Code
	NNN.NNN.NNN			(6)
Columns	1-9	10-48	50-53	70

Status Code Greater than 18
Excluding Status 20.

October - September (Due December 31)

- -

JOB CORPS

Supply Format

	DOT Code	DOT Title	Applicants Available*	Source Code
	NNN.NNN.NNN			(5)
Columns	1-9	10-48	50-53	70

October - September (Due December 31)

JOB SERVICE/EMPLOYMENT AND TRAINING

Supply Format

	DOT Code	DOT Title	Completers*	Source Code
	NNN.NNN.NNN			(3)
Columns	1-9	10-48	50-53	70

*Note: Program completers are in a termination status.

October - September (Due December 31)

- -

JOB SERVICE APPLICANTS

Supply Format

	DOT Code	DOT Title	Applicants Available*	Source Code
	NNN.NNN.NNN			(7)
Columns	1-9	10-48	50-53	70

*Note: Applicants available anytime during this federal fiscal year.
Source: ESARS Table 96

October - September (Due December 31)

HIGHER EDUCATION

Supply Format

	HEGIS Code	HEGIS Title	Degrees Conferred*	Source Code
	NNNN			(4)
Columns	1-4	10-48	50-53	70

July - June (Due December 31)

*Degrees conferred includes community colleges and private colleges

- -

PROPRIETARY SCHOOLS

Supply Format

	USOE Code	USOE Title	Completers	Source Code
	NN.NNNN			(8)
Columns	1-6	10-48	50-53	70

July - June (Due December 31)

National - NCES Survey - 1981

Supply Organization

Supply

Supply can be defined as people for jobs (or workers).

Current Supply: The number of individuals currently employed in Montana in a particular occupation, plus the number of individuals qualified and currently seeking employment in Montana in that occupation.

Montana's Occupational Information System (OIS) will focus on the number of individuals who are qualified, and available, for employment in specific occupations in Montana at given points in time.

An explanation of all elements contained in the Montana OIS supply/demand report follow:

All information contained in the supply/demand report will be explained from top to bottom and left to right as you examine the supply report.

Date: is the date that the report was printed.

Title: Montana Supply Report, is the name of the report.

The information contained in parenthesis is the report indentification, followed by page number. Supply sources are made up of seven (7) different sources of information. The next data element is cluster number and title, for example, "AG-1, Agriculture

production," is a broad description of training programs or occupations that are related to the cluster title. Montana currently has fifty-eight (58) of these cluster titles assigned to the OIS that serve as a means of clustering training programs with related occupations.

Discipline Title: Discipline Title reflects the title of a training program as correlated to the reporting system being used by the reporting agency.

Cluster Total: This indicates the total of individuals available for work, and those people who have completed a training program. (The column heading is the supply source.)

Syst-Cde: This is the classification system code number that each agency reports in. The six-digit code is the Office of Education Code (USOE); the four-digit code is the Higher Education General Information Survey Code (HEGIS); the nine-digit code is the Dictionary of Occupational Titles (DOT) code.

The numbers to the right of the aforementioned codes reflect the supply (or workers) which is printed in the corresponding supply source column.

Public Sec: This column is the number of high school students who have completed a vocational education training program and are available for work in Montana.

Limitations:

Class-based reporting systems may result in duplicate program enrollment or completion counts. Follow-up data may be based on a limited sample size.

A large number of the postsecondary/adult enrollees and completers are already working full-time or part-time while participating in vocational education programs in vocational education programs. There may be some overlap or duplication of counts.

VoEd/VoTech: This column represents program completers from the five (5) Vocational Technical Centers in Montana.

Limitations:

Class-based reporting systems may result in duplicate program enrollment or completion counts. Follow-up data may be based on a limited sample size.

A large number of the postsecondary/adult enrollees and completers are already working full-time or part-time while participating in vocational education programs. There may be some overlap or duplication of counts.

Higher Ed: This column includes degrees conferred from all units of the Montana University System, community college degrees conferred and program completers, private college (such

as Carroll College in Helena) degrees conferred and certificates awarded.

Limitations:

The Higher Education General Information Survey (HEGIS) taxonomy is unique and is difficult to translate into occupational classification systems. The HEGIS code includes a very broad structure and is difficult to relate to specific occupations. Some students counted as completers are already working full- or part-time. No comprehensive follow-up data is available to establish specific relationships between the academic fields of students and the occupations they eventually enter. Non-accredited colleges and universities are excluded from the HEGIS universe of reporting institutions. The Montana supply report will reflect only the training programs that are related to vocational occupations which is significantly understated when compared to the actual number of degrees and certificates awarded by the university system. There were a total of 5,250 students who received degrees during the 1980-81 school year from the university system as compared to 1,379 which is reported in the Montana Supply Report. The new Classification of Instructional Program (CIP) codes will enhance the supply report because this new

coding structure is much more specific in its relating training programs to occupations.

Prop Schools: This column includes program completers from proprietary schools such as cosmetology and barber colleges in our state.

Limitations:

The National Center for Education Statistics (NCES) conducts a survey on a bienniel basis, so, new information for the OIS will need to be captured every other year by another method. The SOICC cooperates with the NCES survey and helps to collect the data prior to sending the survey to NCES, thus we are able to capture and use this data as input much sooner than otherwise possible.

CETA clients or vocational rehabilitation clients enrolled in a postsecondary career school program would be counted in their respective management information systems as well as by the NCES survey. This causes these individuals to be included twice in the supply component of an OIS.

Voc Rehab: This column includes program completers who have finished training that was provided by vocational rehabilitation throughout Montana.

Limitations:

Clients of vocational rehabilitation programs may receive services over an extended period of time, therefore, their entry time into the labor market is not always known. Also, many of these clients are not necessarily obtaining specific occupational skills; they might be getting more generic skill training to assist them in overcoming handicaps. Important to the concept of vocational rehabilitation is job restructuring and job tailoring to accommodate physical limitations of individuals.

After completing rehabilitation training, it is also possible for clients to recieve training from another agency, thus, there is a pontential for counting this individual more than once, therefore duplication could occur.

CETA: This column includes program completers who have completed training programs provided by the Comprehensive Employment and Training Act.

Limitations:

The reports currently required by the U.S. Department of Labor do not require occupational detail on training programs and clients.

Some clients are "recycled" through a number of training programs and could be included several times on CETA reports because data available are by DOT code and not by Social Security number. In many cases, CETA classroom training occurs through the vocational education system. Potentially, a CETA trainee could be counted in the VEDS reporting, thus duplicating the counts of "available" for the labor supply in an occupation.

Job Corps: This column includes program completers who have completed training in one of the three (3) Job Corps training centers in Montana.

Limitations:

Counts of individuals enrolled in Job Corps are provided by Job Corps Centers, not by the participant's home state, to which they are likely to return after receiving training. This limitation in the Job Corps information restricts the use of these data in an OIS because of the inability to associate supply information with a specific geographic area or state. It is difficult to obtain Job Corps completion data because there is no requirement that they report to a state agency. Information must be obtained by contacting each of the Job Corps in Montana and asking them to provide data by DOT Code on the number of individuals trained for a specific

occupation. Their cooperation is essential in order to provide this supply component in SOICC's report.

Other Supply Sources:

Supply sources not contained in this report but should be considered when making program training decisions are: 1) occupational transfers (people who transfer from one occupation to another); 2) number of people who migrate into or out of Montana; 3) people who are retiring from the military or military discharges; 4) Job Service applicants, information can be obtained by contacting the Department of Labor and Industry, Research and Analysis Bureau; and 5) re-entrants to the labor force due to changes in economic conditions (displaced workers).

Supply Totals: This column indicates the number of people who have completed the necessary requirements for a training program and the number of people who are qualified for, and are seeking work in a particular occupation in Montana, during the specified reporting period printed on the report.

NOTE:

When using the following reports for making training program decisions, please use this data in conjunction with other planning imformation before making a decision on whether to delete, add, or modify any training programs.

MONTANA OCCUPATIONAL AND EDUCATIONAL/
TRAINING PROGRAM CLUSTERS

CLUSTER LIST

Agriculture Cluster

AG1 Agriculture Production Occupation
AG2 Agriculture Business Occupation
AG3 Agriculture Mechanics
AG4 Horticulture and Landscaping Occupations
AG5 Forestry Occupation

Graphic Arts Clusters

GX1 Advertising
GX2 Drafting
GX3 Commercial Art

Health Clusters

HE 1 Medical Record Technologist
HE 2 Dental Assistant
HE 3 Dental Hygienist
HE 4 Medical Laboratory Technician
HE 5 Licensed Practical Nurse
HE 6 Medical Nursing Assistant
HE 7 Treatment Services Occupations
HE 8 Radiologic Technician
HE 9 Registered Nurse
HE10 Physician

Marketing Clusters

MK1 Real Estate Marketing
MK2 Marketing Management
MK3 Retail Marketing
MK4 Recreation and Tourism

Office Clusters

OF1 Bookkeeping and Accounting
OF2 Clerical Office Practice
OF3 Communications Clerical
OF4 Personnel and Labor Relations
OF5 Secretarial Office Practice
OF6 Office Management
OF7 Key Entry Operations
OF8 Computer Science Occupations

Public Service Clusters

PS1 Emergency Medical Technician
PS2 Fire and Fire Safety
PS3 Police Science

Skill Clusters

SK1 Electrical Occupations
SK2 Electronic Occupations
SK3 Air Conditioning and Regrigeration
SK4 Welding Occupations
SK5 Carpentry and Construction Trades
SK6 Heavy Equipment Mechanics and Operators
SK7 Automotive and Engine Mechanics
SK8 Machine Shop
SK9 Metalworking Occupations

Service Clusters

SV1 Institutional & Building Service Occupations
SV2 Vehicle Operators
SV3 Barbering
SV4 Cosmetology
SV5 Child Care Services
SV6 Food Production, Management & Services

Technology Clusters

TC1 Power Station Operators
TC2 Civil Technology Occupuations
TC3 Chemical Technology Occupations
TC4 Environmental Control Technology Occupations
TC5 Mechanical Technology Occupations
TC6 Instrument Technology Occupations
TC7 Textile Technology Occupations
TC8 Commercial Aviation Occupations
TC9 Industrial Engineering Occupations

FOR PERIOD 1980-1981.

AG1-AGRICULTURE PRODUCTION

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
AGRICULTURE PRODUCTION	01.0100	84	2						86
AUCTIONEERING	04.0800								
AGRICULTURE TECHNOLOGIES	5402			37					37
WAREHOUSING	219.367-034							6	6
FARMWORKER LIVESTOCK	410.664-010						5		5
BEEKEEPER	413.161-010						1		1
FARMWORKER,GENERAL	421.683-010					1			1
FARMWORKER GENERAL	421.683-010						5		5
FISH FARMER	446.161-010						1		1
FISH HATCHERY WORKER	446.684-010						4		4
LABORER AQUATIC LIFE	446.687-014						2		2
CLUSTER TOTAL		84	2	37	0	1	18	6	148

AG2-AGRICULTURE BUSINESS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
AUCTIONEERING	04.0800				40				40
AGRICULTURE TECHNOLOGIES	5402								
RANCH MANAGER	180.167-018						1		1
PLANT MANAGER	183.117-014						1		1
WAREHOUSING	219.367-034							6	6
FARMWORKER LIVESTOCK	410.664-010						5		5
ANIMAL CARETAKER	410.674-010						6		6
ANIMAL KEEPER	412.674-010						1		1
FARMWORKER,GENERAL	421.683-010								
FARMWORKER GENERAL	421.683-010						5		5
SCALE MECHANIC	633.281-026						1		1
MILKING SYSTEM INSTALLER	809.381-018						1		1
FENCE ERECTOR	869.684-022						2		2
LABORER, STORES	922.687-058								
LABORER STORES, WAREHOUSE	922.687-058						14		14
MATERIAL HANDLER	929.687-030						52		52
CLUSTER TOTAL		0	0	0	40	0	89	6	135

AG3-AGRICULTURE MECHANICS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
AGRICULTURE MECHANICS	01.0300	5	22						27
AGRICULTURAL ENGINEERING TECH	5399								
AGRICULTURE TECHNOLOGIES	5402								
CONSTRUCTION MANAGER	182.017-010						2		2
FARMWORKER,GENERAL	421.683-010								
FARMWORKER GENERAL	421.683-010						5		5
FARM EQUIPMENT MECHANIC	624.281-010						1		1
FARM MACHINERY SET UP MECHANIC	624.381-018						1		1
FARM MACHINE WELDER	625.280-100						1		1
CLUSTER TOTAL		5	22	0	0	0	10	0	37

AG4-HORTICULTURE & LANDSCAPING

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
FLORISTRY	04.0500				19				19
AGRICULTURE TECHNOLOGIES	5402								
HORTICULTURAL WORKER	405.684-014						4		4
GREENS KEEPER	406.683-010						5		5
CEMETARY WORK	406.684-010						12		12
GROUNDS WORKERS	406.684-014						27		27
PARK GROUNDS KEEPER	406.687-010						83		83
LANDSCAPE GARDENER	408.161-010						1		1
CLUSTER TOTAL		0	0	0	19	0	132	0	151

AG5-FORESTRY LOGGING & LUMBER

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
FORESTRY	01.0700	2	17						19
FISH, GAME, AND WILDLIFE MANAGEMENT	0107			99					99
PARKS AND RECREATION MANAGEMENT	2103			31					31
FORESTRY AND WILDLIFE TECH	5403			14					14
TIMBER-MANAGEMENT SPECIALIST	040.061-034					1			1
FORESTRY AIDE	452.364-010						165		165
FOREST WORKER	452.687-010						117		117
LOGGING FALLER I	454.384-010						2		2
CRUISER /LOGGING ESTIMATOR	459.387-010						1		1
LARORER , BRUSH CLEARING	459.687-010						3		3
KILN BURNER	573.682-010						6		6
VARIETY SAW OPERATOR	667.682-086						1		1
SAW MILLWORKER	667.686-014						2		2
MACHINE SETTER WOOD	669.280-010						1		1
MOLDER PATTERN	693.381-022						1		1
YARD SUPERVISOR, PULP WOOD	929.133-010						1		1
CLUSTER TOTAL		2	17	144	0	1	300	0	464

GX1-ADVERTISING

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
BROADCASTING	17.9902				50				50
COMMUNICATIONS, GENERAL	0601			10					10
JOURNALISM	0602			34					34
RADIO/TELEVISION	0603			10					10
ADVERTISING	0604								
COMMUNICATIONS, MEDIA	0605								
MARKETING, DISTR., PURCHASING	5004								
COPY WRITER	131.067-014					1			1
NEWSCASTER	131.267-010						1		1
NEWSWRITER	131.267-014					1			1
JOURNALISM	131.267-026						1		1
EDITORIAL ASSISTANT	132.267-014						3		3
EDITOR INDEX	137.267-010						1		1
PHOTO JOURNALIST	143.062-034						1		1
ADMINISTRATIVE ASSISTANT	169.167-010					1			1
ADVERTISING ASSISTANT	169.167-010						5		5
CLUSTER TOTAL		0	0	54	50	3	12	0	119

GX2-DRAFTING

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
DRAFTING	17.1300	23	27						50
ARCHITECTURE	0202			42					42
ENGINEERING GRAPHICS	5303								
ARCHITECTURAL DRAFTING TECH	5304			8					8
DRAFTER, ARCHITECTURAL	001.261-010					2			2
CLUSTER TOTAL		23	27	50	0	2	0	0	102

GX3-COMMERCIAL ART

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
FLORISTRY	04.0500								
FINE ARTS, GENERAL	1001			16					16
ART (PAINTING, DRAWING, SCULPTURE)	1002			77					77
APPLIED DESIGN	1009								
APPL ARTS, GRAPH ARTS & FINE ART	5012			4					4
CURATOR'S ASSISTANT	102.017-010						26		26
GRAPHIC ARTIST	141.061-022						5		5
FLORAL DESIGNER	142.081-010						1		1
GRAPHIC ARTIST	149.021-010						1		1
COMPOSER,MUSIC OCCUPATIONS	152.410-100						1		1
ART SALESPERSON	277.457-010						1		1
PIANO TUNER	730.361-010						1		1
PICTURE FRAMER	739.684-146						1		1
PROP MAKER THEATRICAL	962.281-010						4		4
WARDROBE SPECIALTY WORKER	969.381-010						2		2
SIGN WRITER	970.281-022						9		9
PAINTER, HAND	970.381-022						2		2
CLUSTER TOTAL		0	0	97	0	0	54	0	151

GX4-PRINTING & GRAPHIC ARTS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
GRAPHIC ARTS	17.1900	5							5
APPLIED DESIGN	1009								
APPLIED ARTS, GRAPH ARTS & FINE ART	5012			4					4
GRAPHIC ARTIST	141.061-022						5		5
GRAPHIC ARTIST	149.021-010						1		1
PRINTER	651.380-010						1		1
PHOTOGRAPHER'S HELPER	976.667-010						1		1
GRAPHIC ARTS TECHNICIAN	979.382-018						1		1
PRINT-SHOP HELPER	979.684-026						8		8
CLUSTER TOTAL		5	0	4	0	0	17	0	26

HE1-MEDICAL RECORD TECHNOLOGIS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
MEDICAL RECORD TECHNOLOGIES	5213								
MEDICAL ASSISTANT	5214								
MEDICAL SECRETARY	201.362-014						3		3
MEDICAL-RECORD CLERK	245.362-010					1			1
CLUSTER TOTAL		0	0	0	0	1	3	0	4

HE10-PHYSICIAN

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
MEDICINE, MD DEGREE	1206								
MEDICAL SPECIALTIES	1207								
OSTEOPATHIC MEDICINE, D.O.	1210								
CLUSTER TOTAL		0	0	0	0	0	0	0	0

HE2-DENTAL ASSISTANT

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
DENTAL ASSISTANT	07.0101		16						16
DENTAL ASSISTANT TECHNOLOGIES	5202								
CLUSTER TOTAL		0	16	0	0	0	0	0	16

HE3-DENTAL HYGIENIST

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
DENTAL HYGIENE TECHNOLOGIES	5203								
CLUSTER TOTAL		0	0	0	0	0	0	0	0

HE4-MEDICAL LAB TECHNICIAN

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
MEDICAL OR BIOLOGICAL LAB ASST	5205								
CLUSTER TOTAL		0	0	0	0	0	0	0	0

HE5-LICENSED PRACTICAL NURSE

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
PRACTICAL NURSE	07.0302		125						125
SURGICAL TECHNICIAN	07.0305		10						10
NURSING, PRACTICAL	5209								
NURSE,PRACTICAL	354.374-010					1			1
PRACTICAL NURSE	354.374-010						1		1
CLUSTER TOTAL		0	135	0	0	1	1	0	137

HE6-MEDICAL NURSING ASSISTANT

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
NURSE ASSISTANT	07.0303		36						36
HEALTH OCCU. EDUCATION,OTHER	07.9900								
MEDICAL ASSISTANT	5214								
OTHER, HEALTH SERVICES	5299								
VOLUNTEER SERVICE SUPERVISOR	187.137-014						3		3
VOLUNTEER SERVICE COORDINATOR	187.167-022						2		2
RESIDENCE SUPERVISOR	187.167-186						2		2
MEDICAL COUNSELOR	195.107-034						2		2
HOSPITAL CLERK	205.362-018						2		2
COMPANION	309.667-010					1			1
BIRTH ATTENDANT	354.377-010						2		2
HOME ATTENDANT	354.377-014						2		2
PSYCHOLOGIST AIDE	355.377-014						3		3
HOSPITAL ATTENDANT	355.674-000						1		1
CHILD-CARE ATTENDANT, SCHOOL	355.674-010					1			1
DAY CARE WORKER	355.674-010						1		1
NURSE AIDE	355.674-014					1			1
NURSES AIDE TRAINEE	355.674-014						22		22
CLUSTER TOTAL		0	36	0	0	3	42	0	81

HE7-TREATMENT SERVICES

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
INHALATION THERAPY	07.0903		13						13
HEALTH SERVICES ASSISTANT TECH	5201			17					17
OCCUPATIONAL THERAPY TECH	5210								
INHALATION THERAPY TECH	5215								
PHYSICAL THERAPY TECH	5219								
OTHER, HEALTH SERVICES	5299								
VOCATIONAL-REHABILITATION COUNSELOR	045.107-042					1			1
MUSIC THERAPIST	076.127-014					1			1
OCCUPATIONAL-SAFETY-AND-HEALTH-INSPECT	168.167-062								
VOLUNTEER SERVICE SUPERVISOR	187.137-014						3		3
VOLUNTEER SERVICE COORDINATOR	187.167-022						2		2
SOCIAL WORKER, PSYCHIATRIC	195.107-034					1			1
CLUSTER TOTAL		0	13	17	0	3	5	0	38

HE8-RADIOLOGIC TECHNICIAN

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
RADIOLOGIC TECHNOLOGY	07.0501				18				18
RADIOLOGIC TECHNOLOGIES	5207								
CLUSTER TOTAL		0	0	0	18	0	0	0	18

HE9-REGISTERED NURSE

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
NURSING	1203			174					174
NURSING, R.N. (< 4 YR PROG)	5208			72					72
NURSE,GENERAL DUTY	075.374-010					1			1
CLUSTER TOTAL		0	0	246	0	1	0	0	247

MK1-REAL ESTATE MARKETING

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
REAL ESTATE	04.1700				674				674
REAL ESTATE	0511								
REAL-ESTATE AGENT	186.117-058					1			1
REAL ESTATE	186.117-058						1		1
CLUSTER TOTAL		0	0	0	674	1	1	0	676

MK2-MARKETING MANAGEMENT

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
BUSINESS MANAGEMENT AND ADMINISTRATION	0506			185					185
MARKETING AND PURCHASING	0509			12					12
MANUFACTURING SUPERVISOR	183.167-018						1		1
STORE MANAGER	185.167-046						1		1
BUSINESS MANAGER	189.167-022						3		3
BUSINESS ADMINISTRATOR	191.117-018						1		1
SALES AGENT	251.135-010						1		1
CLUSTER TOTAL		0	0	197	0	0	7	0	204

MK3-RETAIL MARKETING

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
GENERAL MERCHANDISE	04.0800	133	37						170
MARKETING, DISTR., PURCHASING	5004			14					14
COMMODITIES BROKER	162.157-042						1		1
CLOTHES SORTER	222.387-054						8		8
STOCK CLERK, WAREHOUSEMAN	222.387-058							4	4
TOURIST INFORMATION ASSISTANTS	237.367-050						2		2
HOTEL CLERK	238.362-010						2		2
RESERVATION CLERK	238.362-014						1		1
SALES AGENT	251.135-010						1		1
SALES REP	254.357-014						1		1
SALES REPRESENTATIVE FOOD	260.357-014						2		2
SALESPERSON,COSMETICS AND TOILETRIES	262.357-018					1			1
FURNITURE SALESPERSON	270.357-030						1		1
APPLIANCE SALESPERSON	270.357-034						1		1
SALES REPRESENTATIVE,MORTICIAN SUPPLIE	275.357-030					1			1
ART SALESPERSON	277.457-010						1		1
GENERAL SALESPERSON	279.357-014						1		1
HARDWARE SALESPERSON	279.357-050						1		1
SALES PERSON GENERAL	279.357-054						2		2
PARTS SALESPERSONS	279.357-062						3		3
AUCTIONEER	294.257-010					1			1
APPAREL RENTAL CLERK	295.357-010						1		1
PACKAGER HAND	920.587-018						1		1
BAGGER GROCERY	920.687-014						2		2

MK3-RETAIL MARKETING

DISCIPLINE TITLE	SYST-COE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
BANDER, HAND	920.687-030						7		7
CUTTER, BANANA ROOM	929.687-010						5		5
CLUSTER TOTAL		133	37	14	0	3	44	4	235

MK4-RECREATION & TOURISM

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
RECREATION	01.0602				5				5
PARKS AND RECREATION MANAGEMENT	2103			31					31
RECREATION MANAGER	187.117-042						1		1
HOTEL RECREATION MANAGER	187.167-122						2		2
RECREATION AIDE	195.167-014						1		1
PROGRAM AIDE	195.222-014						1		1
RECREATION LEADER	195.227-010						24		24
RECREATION LEADER	195.227-014						1		1
RESERVATION AIDE	238.367-018						1		1
GROUNDS WORKER	301.687-010						6		6
HOTEL ATTENDANT	328.281-010						2		2
RECREATION ATTENDANT	341.367-010						5		5
LIFE GUARD AIDE	379.667-014						4		4
BICYCLE REPAIRER	639.681-010						4		4
SWIMMING POOL SERVICER	891.684-018						2		2
MOBILE HOME LOT WORKER	899.484-010						4		4
CLUSTER TOTAL		0	0	31	5	0	58	0	94

OF1-BOOKKEEPING & ACCOUNTING

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
ACCOUNTING & COMPUTING OCCU.	14.0100		62						62
GENERAL OFFICE CLERKS	14.0303	26							26
BUSINESS MANAGEMENT AND ADMIN	0506			185					185
ACCOUNTING TECHNOLOGIES	5002			4					4
BUSINESS ACCOUNTANTS	5003								
ACCOUNTANT	160.167-010					1			1
ACCOUNTING	160.167-010						3		3
ACCOUNTANT	160.167-026						1		1
ACCOUNTANT	160.168-010						2		2
BOOKEEPER	210.382-014					3			3
BOOKKEEPER	210.382-014						9		9
BOOKKEEPER II	210.382-018						1		1
CASHIER	211.462-010						9		9
CASHIER CHECKER	211.462-014						8		8
PAYROLL CLERK	215.482-010						1		1
BUDGET CLERK	216.382-022						3		3
CLERICAL ARMY	216.382-062						2		2
CLUSTER TOTAL		26	62	189	0	4	39	0	320

OF2-CLERICAL OFFICE PRACTICE

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
GENERAL OFFICE, CLERICAL	14.0300		23						23
BUSINESS AND COMMERCE TECHNOLOGIES	5001			39					39
CLERICAL	161.267-010						1		1
SECRETARY	201.362-030								
CLERICAL AIDE	201.363-030						2		2
STENOGRAPHER	202.362-010						1		1
CLERK-TYPIST	203.362-010					1			1
CLERK TYPIST	203.362-010						60	5	65
HOSPITAL CLERK	205.362-018						2		2
FILE CLERK	206.362-010						8		8
FILE CLERK	206.367-014						8		8
CIRCULATION CLERK	209.362-010						2		2
CLERK,GENERAL	209.562-010					1			1
RECEPTIONIST/CLERICAL SCRTRY	209.562-010						186		186
CLERICAL AIDE	209.562-018						2		2
RECEPTIONIST	209.562-050						1		1
AUDIT CLERK	210.382-010						1		1
GENERAL OFFICE CLERK	219.362-010						124		124
ATTENDENCE CLERK	219.362-013						6		6
TELEGRAPH CLERK	219.362-020						1		1
INSURANCE CLERK	219.387-014						1		1
COUPON CLERK	219.388-010						2		2
TAX CLERK	219.562-010						2		2
CONTROL CLERK, DATA PROCESSING	221.382-014								

OF2-CLERICAL OFFICE PRACTICE

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
TELEPHONE OPERATOR	235.662-022						1		1
APPOINTMENT CLERK	237.367-010						1		1
INFORMATION CLERK	237.367-022						2		2
RECEPTIONISTS	237.367-038						14		14
SERVICE OBSERVER	239.367-027						2		2
RECEPTIONIST	239.367-038						1		1
OFFICE HELPER	239.567-010						2		2
COLLECTION CLERK	241.357-010						1		1
ORDER CLERK	249.367-054						1		1
CLUSTER TOTAL		0	23	39	0	2	435	5	504

OF3-COMMUNICATIONS CLERICAL

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES							
		PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
BROADCASTING	04.0100				14				14
COMMUNICATIONS, GENERAL	0601			10					10
PUBLIC SERVICE TECHS, GENL	5501			2					2
PUBLIC ADMIN & MANAGEMENT TECH	5508								
LIBRARY ASSISTANT	100.367-018						2		2
LIBRARY AIDE	100.367-046						2		2
OCCUPATIONAL-SAFETY-AND-HEALTH-INSPECT	168.167-062					1			1
FOREIGN-SERVICE OFFICER	188.117-106					1			1
BRAILLE OPERATOR	203.582-010						1		1
TELEGRAPH OPERATOR	203.582-050						1		1
POSTAL CLERK	209.587-016						2		2
STOCK CONTROL CLERK	219.367-034						2		2
STORAGE CLERK	219.388-000						1		1
PARTS CLERK	222.367-042						6		6
MATERIAL CLERK	222.387-034						1		1
SHIPPING CLERK	222.387-050						1		1
STOCK CLERK	222.387-058						1		1
RECEIVER DISPATCHER	239.367-022						20		20
CARGO AGENT	248.367-018						1		1
DISPATCHER	249.167-014						1		1
LIBRARIAN AIDE	249.367-040						3		3
LIBRARY ASSISTANT	249.367-042						2		2
LIBRARY AIDE	249.367-046						40		40
ORDER CLERK	249.367-054						1		1

|----------S U P P L Y S O U R C E S----------|

OF3-COMMUNICATIONS CLERICAL

DISCIPLINE TITLE	SYST-CDE	PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
TEACHER AIDE	249.367-074					1			1
TEACHER AND LIBRARY AIDE	249.367-074						77		77
LABORER, STORES	922.687-058					1			1
CLUSTER TOTAL		0	0	12	14	4	165	0	195

OF4-PERSONNEL & LABOR RELATION

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
PERSONNEL MANAGEMENT	0515								
LABOR AND INDUSTRIAL RELATIONS	0516								
EDUCATION TECHNOLOGIES	5503			2					2
VOCATIONAL-REHABILITATION COUNSELOR	045.107-042								
TEACHER,SECONDARY SCHOOL	091.227-010								
TEACHER,ELEMENTARY SCHOOL	092.227-010								
TEACHER,DEAF	094.224-010					1			1
INSTRUCTOR,PHYSICAL EDUCATION	099.224-010								
LAWYER	110.107-010					1			1
SOCIAL WORKER, SCHOOL	195.107-038					1			1
CLUSTER TOTAL		0	0	2	0	3	0	0	5

|----------S U P P L Y S O U R C E S----------|

OF5-SECRETARIAL OFFICE PRACTIC

DISCIPLINE TITLE	SYST-CDE	PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
STENOGRAPHIC, SEC	14.0700		279						279
SECRETARIES	14.0702	19							19
STENOGRAPHERS	14.0703	10							10
SECRETARIAL STUDIES	0514								
SECRETARIAL TECHNOLOGIES	5005			38					38
MEDICAL SECRETARY	201.362-014						3		3
SECRETARY	201.362-030					1			1
SECRETARY/RECEPTIONIST	201.362-030						110		110
SECRETARY	201.362-032						1		1
STENOGRAPHER	202.362-010						1		1
CLERK,GENERAL	209.562-010								
PRODUCTION ROOM WORKER	209.587-026						1		1
CLUSTER TOTAL		29	279	38	0	1	116	0	463

OF6-OFFICE MANAGEMENT

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
SECRETARIAL STUDIES	0514								
MANAGER	163.167-010						1		1
MANAGER OFFICE	169.167-034					2			2
MANAGEMENT TRAINEE	189.167-018						5		5
DEPARTMENT MANAGER	299.137-010						1		1
CLUSTER TOTAL		0	0	0	0	2	7	0	9

|----------S U P P L Y S O U R C E S----------|

OF7-KEY ENTRY OCCUPATIONS

DISCIPLINE TITLE	SYST-CDE	PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
KEY PUNCH & CODING EQUIP OCCU	14.0202		123						123
KEY PUNCH OPERATOR	5102								
COMPUTER OPERATOR TECHNOLOGIES	5104								
DATA TYPIST	203.582-022						13		13
KEYPUNCH OPERATOR	203.582-030					1	9		10
COMPUTER OPERATOR	213.362-010						8		8
COMPUTER EQUIPMENT OPERATOR	213.582-010						1		1
CONTROL CLERK, DATA PROCESSING	221.382-014					1			1
MICROFICHE DUPLICATOR	976.381-014						2		2
CLUSTER TOTAL		0	123	0	0	2	33	0	158

OF8-COMPUTER SCIENCE OCCU.

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
COMPUTER & INFORMATION SCIENCES	0700			36					36
COMPUTER AND INFORMATION SCIENCES, GEN	0701			36					36
INFORMATION SCIENCES AND SYSTEMS	0702								
DATA PROCESSING	0703								
COMPUTER PROGRAMMING	0704								
SYSTEM ANALYSIS	0705								
OTHER COMPUTER & INFO. SCIENCES	0797								
DATA PROCESSING TECHNOLOGIES	5101								
COMPUTER PROGRAMMER TECHNOLOGIES	5103			3					3
FILM OR TAPE LIBRARIAN	222.367-026						2		2
CLUSTER TOTAL		0	0	75	0	0	2	0	77

PS2-FIRE & FIRE SAFETY

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
FIRE CONTROL TECHNOLOGY	5507			4					4
CLUSTER TOTAL		0	0	4	0	0	0	0	4

PS3-POLICE SCIENCE

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES							
		PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
POLICE/LAW ENFORCE/CORR TECH	5505			11					11
LAWYER AIDE	110.107-010						2		2
MAGISTRATE	111.107-014						1		1
LOBBYIST	165.017-010						1		1
TRUANT OFFICER	168.367-010						3		3
ENFORCEMENT OFFICER TRAINEE	243.362-014						3		3
SECURITY OFFICER	372.263-010						1		1
SECURITY GUARD	372.667-034						34		34
POLICE OFFICER	375.263-014						5		5
RADIO DISPATCHER	379.362-010						24		24
DOG CATCHER	379.673-010						6		6
CLUSTER TOTAL		0	0	11	0	0	80	0	91

SK1-ELECTRICAL OCCUPATIONS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
ELECTRICAL TECHNOLOGY	16.0107		17						17
ELECTROMECHANICAL TECHNOLOGY	16.0109		9						9
IND. ELECTRONICS	17.0108		28						28
TRADE & IND. OCCUPATIONS	17.9900								
TRANSPORTATION & PUBLIC UTILITY	5011			4					4
ELECTRONICS AND MACHINE TECH	5310			25					25
ELECTROMECHANICAL TECHNOLOGIES	5311								
ELECTICAL ENGINEER	003.061-010								
ELECTRONICS TECHNICIAN	003.161-014								
TELEVISION CABLE INSTALLER	821.281-010						1		1
ELECTRICIAN	824.261-010						1		1
ELECTRICIAN APPRENTICE	824.261-014						1		1
SUPRV. MAJOR APPLIANCE ASST.	827.131-014						1		1
ELECTRICAL APPLIANCE SERVICER	827.261-010						2		2
CLUSTER TOTAL		0	54	29	0	0	6	0	89

SK2-ELECTRONIC OCCUPATIONS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
ELECTRONICS OCCUP.	17.1500	13	4						17
TRADE & IND. OCCUPATIONS	17.9900				76				76
ELECTRONICS AND MACHINE TECH	5310								
ELECTRONICS TECHNICIAN	003.161-014					1			1
CASH REGISTER SERVICER	633.281-010						1		1
OFF. MACHINE SERV. APPRENTICE	633.281-022						1		1
TELEVISION AND RADIO REPAIRER	720.281-018						4		4
TUBE REBUILDER	725.381-010						1		1
ELECTRONICS ASSEMBLER	726.261-010						1		1
CLUSTER TOTAL		13	4	0	76	1	8	0	102

SK3-AIR CONDITIONING & REFRIG

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES							
		PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
AIR CONDITION NG	17.0100		19						19
CONSTRUCTION AND BUILDING TECH	5317			3					3
AIR CONDITIONING MECHANIC	620.281-010						2		2
REFREGERATION MECHANIC	637.261-026						3		3
AIR-CONDITIONING-UNIT TESTER	827.361-010					1			1
AIR CONDITIONING TESTER	827.361-010						1		1
CLUSTER TOTAL		0	19	3	0	1	6	0	29

SK4-WELDING OCCUPATIONS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES							
		PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
MACHINE SHOP	17.2302				5				5
WELDING & CUTTING	17.2306	32	89		81				202
WELDING TECHNOLOGIES	5308			8					8
MECHANIC / WELDER	621.261-022						2		2
FARM MACHINE WELDER	625.280-100						1		1
WELDER ARC	810.384-014						1		1
WELDER GAS	811.684-014						1		1
WELDING	812.381-010							65	65
WELDER GENERAL	812.884-014						1		1
BRAZIER PRODUCTION	813.382-010						1		1
THERMAL CUTTER HAND	816.464-010						1		1
WELDER/FITTER	819.361-010						4		4
WELDER APPRENTICE	819.384-008						2		2
WELDER APPRENTICE, COMBINATION	819.384-008					1			1
WELDER,COMBINATION	819.384-010					2			2
WELDER, COMBINATION	819.384-010							37	37
WELDER COMBINATION	819.384-010						11		11
WELDER, PRODUCTION LINE	819.684-010							9	9
CLUSTER TOTAL		32	89	8	86	3	25	111	354

SK5-CARPENTRY & CONST. TRADE

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
CARPENTRY	17.1001	32	15						47
CONSTRUCTION AND BUILDING TECH	5317								
LABORER GENL. PAINT & VARNISH	559.685-110						1		1
SPREADING MACHINE OPR. GLUE	559.685-170						1		1
VENEER GRADER/INSPECTOR	569.587-010						1		1
CUPBOARD BUILDER	703.684-014						1		1
ENGRAVER APPRENTICE DECORATIVE	704.381-022						1		1
FURNITURE ASSEMBLER	763.684-038						1		1
FINISHED STOCK INSPECTOR	763.687-054						1		1
AUTO UPHOLSTERER APPRENTICE	780.381-014						1		1
PAINTER	840.381-010						9		9
PAINTER,CONSTRUCTION	840.381-010							7	7
CEMENT MASON	844.364-010						1		1
MASON,CEMENT APPRENTICE	844.364-014							10	10
CARPENTER MAINTENANCE	860.281-010						1		1
CARPENTER	860.381-022					1			1
CARPENTRY	860.381-022							12	12
CARPENTER	860.381-022						13		13
CARPENTER,APPRENTICE CONSTUCTION	860.381-026							10	10
APPRENTICE CARPENTER	860.381-026						4		4
CARPENTER MOLD	860.381-034						1		1
PAINTER,MAINT.	861.381-010							10	10
PLUMBER	862.381-030						1		1
PLUMBER APPRENTICE	862.684-034						3		3

SK5-CARPENTRY & CONST. TRADE

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
CONCRETE BUILDING ASSEMBLER	869.664-010						55		55
CONSTRUCTION WORKER I	869.664-014						149		149
AWNING HANGER HELPER	869.687-010						2		2
CONSTRUCTION WORKER II	869.687-026						37		37
BUILDING MAINTENANCE	899.884-010							5	5
LABORER,GENERAL	909.867-014					1			1
CLUSTER TOTAL		32	15	0	0	2	284	54	387

SK6-HEAVY EQUIP. MECH.& OPER.

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
HEAVY EQUIP.(CONSTUCTION)	17.1003		37						37
DIESEL MECHANIC	17.1200		30						30
DIESEL TECHNOLOGIES	5307			18					18
CONSTRUCTION EQUIPMENT MECH	620.261-022						30		30
DIESEL MECHANIC	620.281-050						2		2
MECHANIC,INDUSTRIAL TRUCK	620.281-050					1			1
HEAVY EQUIPMENT MECHANIC,HELPER	620.664-010							4	4
AIR FRAME POWER PLANT MECHANIC	621.281-014						1		1
APPRENTICE AIR FRAME MECHANIC	621.281-018						1		1
DIESEL MECHANIC	625.281-010						3		3
BACKHOE OPERATOR	850.683-030						2		2
WELL DRILL OPERATOR	859.362-010						3		3
OPERATING ENG. CONSTRUCTION	859.683-010						1		1
HEAVY EQUIPMENT OPERATOR,APPRENTICE	859.683-014							13	13
CRANE OPERATOR	921.663-010						1		1
DERRICK WORKER	930.683-018						1		1
CLUSTER TOTAL		0	67	18	0	1	45	17	148

SK7-AUTO. & ENGINE MECHANICS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
BODY & FENDER REPAIR	17.0301		35						35
AUTO-MECHANICS	17.0302		78						78
MECHANICS-AUTO	17.0302	10							10
SMALL ENGINE REPAIR	17.3100	7	16						23
AUTOMOTIVE TECHNOLOGIES	5306			24					24
AUTOMIBILE SERVICE MANAGER	185.167-058						1		1
AUTO MECHANIC	620.261-010						5		5
AUTOMOBILE MECHANIC, APPRENTICE	620.261-012							5	5
TRANSMISSION MECHANIC	620.281-062						1		1
TUNE UP MECHANIC	620.281-066						2		2
AUTOMOBILE-MECHANIC HELPER	620.684-014					1			1
AUTO MECHANICS HELPER	620.684-014						22		22
USED CAR RENOVATOR	620.684-034						3		3
MECHANIC / WELDER	621.261-022						2		2
OUTBOARD MOTOR MECHANIC	623.281-042						1		1
FARM EQUIPMENT MECHANIC	624.281-010						1		1
SMALL ENGINE MECHANIC	625.281-034						3		3
PUMP SERVICE MECHANIC	630.684-022						5		5
MAINTENANCE MECHANIC	638.281-014						11		11
MAINTENANCE MECHANIC HELPER	638.684-018						6		6
TESTER MOTORS AND CONTROLS	721.281-030						1		1
TIRE RECAPPER	750.685-014						3		3
AUTOMOBILE-BODY REPAIRER	807.381-010					1			1
AUTO BODY REPAIRER	807.381-010						4		4

SK7-AUTO. & ENGINE MECHANICS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
MUFFLER INSTALLER	807.381-014						2		2
PAINTER HELPER AUTOMOTIVE	845.684-014						1		1
STEAM CLEANING MACH. OPERATOR	891.685-010						2		2
AUTO SERVICE STATION ATTENDANT	915.467-010						2		2
TIRE REPAIRER	915.684-010						2		2
LUBRICATION SERVICER	915.687-018						4		4
CLUSTER TOTAL		17	129	24	0	2	84	5	261

SK8-MACHINE SHOP

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
MACHINE SHOP	17.2302	1	24						25
BULLET MACHINE CASTING OPER	502.382-010						2		2
INSTRUMENT MAKER	600.280-010					1			1
NUMERICAL CONTROL MACHINE OPER	609.662-010						1		1
PRESS MACHINE OPERATOR	617.260-010						1		1
MILLWRIGHT	638.281-018						1		1
CLUSTER TOTAL		1	24	0	0	1	5	0	31

SK9-METAL WORKING OCCUPATIONS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
METAL-WORKING OCCUP.	17.2300	38							38
GENERAL LABORER STEEL	509.686-010						14		14
FLOTATION TENDER	511.685-026						1		1
GLASS FURNACE TENDER	572.667-034						3		3
METAL FABRICATOR	619.360-014						2		2
SALVAGE WORKER	619.387-010						1		1
METAL FABRICATOR HELPER	619.686-022						4		4
FABRICATOR ASSEMBLER METAL	809.381-010						9		9
CLUSTER TOTAL		38	0	0	0	0	34	0	72

SV1-INSTI. & BLDG SERVICE OCCU

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
BUSINESS & COMMERCE TECH	5000								
GROUP HOME AIDE	145.227-010						11		11
GROUP HOME WORKER	195.164-010						16		16
INTAKE/OUTREACH WORKER	195.267-010						5		5
HOUSEWORKER	301.137-010						1		1
HOUSEKEEPING	301.474-010						4		4
DOMESTIC SERVICE PERSON	307.208-010						2		2
HOUSEKEEPER	321.137-010						3		3
HOSPITAL CLEANER	323.687-010						2		2
MOTEL CLEANER	323.687-014						6		6
HOTEL ATTENDANT	328.281-010						2		2
INSTITUTION GUIDE	353.367-014						1		1
PORTERS/CLEANERS JANITORIAL	381.137-010						5		5
CLEANER, COMMERCIAL OR INSTITUTIONAL	381.687-014					1			1
COMMERCIAL CLEANER	381.687-014						12		12
CLEANER, INDUSTRIAL	381.687-018					1			1
LAB EQUIPMENT CLEANER	381.687-022						2		2
JANITOR MAINTENANCE WORKER	382.664-010						308		308
JANITOR	382.664-010					1			1
SEXTON	389.667-010						6		6
MAINTENANCE REPAIR FACTORY	899.281-014						2		2
MAINTENANCE REPAIRER, BUILDING	899.381-010							6	6
MAINTENANCE REPAIRER BUILDING	899.381-010						78		78
MAINTENANCE REPAIRER & HELPER	899.684-022						15		15

SV1-INSTI. & BLDG SERVICE OCCU

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
CLUSTER TOTAL		0	0	0	0	3	481	6	490

SV2-VEHICLE OPERATORS

DISCIPLINE TITLE	SYST-CODE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
TRADE & IND. OCCUP.,OTHER	17.9900	38	9						47
OUTREACH WORKER	205.367-046						2		2
DELIVERY DRIVER	292.353-010						3		3
MERCHANDISE DELIVERER	299.477-010						1		1
TRACTOR TRAILER TRUCK DRIVER	904.383-010						1		1
TRUCK DRIVER HEAVY	905.663-014						6		6
VAN DRIVER	905.663-018						1		1
TRUCK DRIVER HELPER	905.687-010						2		2
TRUCK DRIVER LIGHT	906.683-022						2		2
TRUCK DRIVER SUPERVISOR	909.137-010						1		1
GARBAGE COLLECTION SUPERVISOR	909.137-014						3		3
BRAKE COUPLER, RAILROADS	910.367-010						1		1
TRACK REPAIRER, RAILROADS	910.682-010						1		1
BUS DRIVER	913.463-010						11		11
TAXI DRIVER	913.463-018						3		3
CLEANER TRANSPORTATION VEHICLE	919.687-014						1		1
CLUSTER TOTAL		38	9	0	0	0	39	0	86

SV3-BARBERING

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
BARBERING	17.2601				94				94
BARBER	330.371-010						2		2
CLUSTER TOTAL		0	0	0	94	0	2	0	96

SV4-COSMETOLOGY

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
COSMETOLOGY	17.2602				278				278
COSMETOLOGIST	332.271-010					3	2		5
CLUSTER TOTAL		0	0	0	278	3	2	0	283

SV5-CHILD CARE SERVICES

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
COMP. CONSUMER & HOME. ED.	09.0101	1356							1356
CARE & GUIDANCE OF CHILDREN	09.0201	88							88
HOME ECONOMICS TECH.	5405								
EDUCATION TECHNOLOGIES	5503			2					2
TEACHER,SECONDARY SCHOOL	091.227-010					2			2
TEACHER,ELEMENTARY SCHOOL	092.227-010					2			2
TEACHER,DEAF	094.224-010								
INSTRUCTOR,PHYSICAL EDUCATION	099.224-010					1			1
TEACHER AIDE	099.327-010					1			1
DIRECTOR EDUCATION	129.107-022						1		1
ELEMENTARY TEACHER	160.162-010						1		1
SOCIAL WORKER	195.107-010						4		4
CASEWORKER, FAMILY	195.107-018						2		2
SOCIAL WORKER, DELINQUENCY PREVENTION	195.107-026					1			1
HUMAN SERVICES WORKER	195.107-026						1		1
SOCIAL WORKER, SCHOOL	195.107-038								
SOCIAL WORKER	195.107-108						2		2
COMMUNITY SERVICE WORKER	195.167-010						10		10
SOCIAL WORKER	195.267-014						1		1
YOUTH CASE WORKER	195.367-010						11		11
CLASSROOM AIDE	249.267-074						1		1
TEACHER AIDE	249.367-074								
CHILD CARE ATTENDANT	255.674-010						1		1
CHILD MONITOR/INFANT GUARD	301.677-010						6		6

SV5-CHILD CARE SERVICES

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
DAY WORKER	301.687-014						4		4
CHILD-DAY CARE	359.677-018						72		72
CAMP COUNSELOR RECREATION AIDE	359.677-026						13		13
CLUSTER TOTAL		1444	0	2	0	7	130	0	1583

SV6-FOOD PROD., MGMT., & SERV.

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
FOOD MANAGEMENT	09.0203	62	22						84
OTHER, (HERO) MULTI. OCCUP.	09.0299	37							37
FOOD & NUTRITION	1306								
BUSINESS & COMMERCE TECH.	5000								
FOOD SERVICES TECHNOLOGIES	5404								
FAST FOOD MANAGER	185.137-010						1		1
FOOD SERVICE MANAGER	187.167-106						1		1
SALES REPRESENTATIVE FOOD	260.357-014						2		2
FOOD SALESPERSON	290.477-014						3		3
LUNCH ROOM ATTENDANT	311.477-014						4		4
WAITRESS	311.477-018						2		2
WAITRESS	311.477-026						3		3
WAITRESS	311.477-030						2		2
COUNTERPERSON	311.477-038						1		1
CANTEEN WORKERS	311.674-010						9		9
WAITRESS	311.674-018						1		1
DINING ROOM ATTENDANTS	311.677-018						1		1
BARTENDERS	312.474-010						3		3
SHIFT SUPERVISOR	313.131-026						1		1
BAKER	313.361-010						2		2
COOK	313.361-014					1	14		15
CHEF	313.361-017						1		1
COOK, APPRENTICE	313.361-018							11	11
SHORT ORDER COOK	313.361-022						6		6

SV6-FOOD PROD., MGMT., & SERV.

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
SPECIALTY COOK	313.361-026						1		1
SHORT ORDER COOK II	313.671-010						1		1
BAKERS HELPER	313.684-010							2	2
COOK HELPER, PASTRY	313.687-010					1			1
PASTRY COOK HELPER	313.687-010						2		2
COOKING	315.361-010							22	22
COOK'S HELPER DIETICIAN AIDE	315.361-010						29		29
PASTRY COOK HOSPITAL	315.361-014						2		2
MEAT CUTTER	316.684-018						2		2
COFFEE MAKER	317.684-018						1		1
COOK, HELPER	317.687-010							9	9
FOOD SEVICE AIDE	317.687-010						2		2
KITCHEN, HELPER	318.687-010							2	2
DISHWASHER	318.687-010						23		23
CATERER HELPER	319.677-010					1			1
CARD DEALER	343.467-018						1		1
SMOKED MEAT PREPARER	525.587-014						7		7
BAKER APPRENTICE	526.381-014						1		1
BOTTLED BEVERAGE INSPECTOR	529.685-026						1		1
BAKERY WORKER	929.686-010						5		5
CLUSTER TOTAL		99	22	0	0	3	135	46	305

TC1-POWER STATION OPERATORS

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
TRANSPORTATION & PUBLIC UTILITY	5011			4					4
PATCHER COKE OVENS	861.664-014						1		1
STATIONARY ENGINEER APPRENTICE	950.382-030						1		1
FIRER, FURNACE	951.670-010						2		2
CLUSTER TOTAL		0	0	4	0	0	4	0	8

TC2-CIVIL TECHNOLOGY OCCU.

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
CIVIL TECHNOLOGY	16.0106		17						17
CIVIL TECHNOLOGIES	5309			19					19
LAND SURVEYING	5399								
SURVEYOR ASSISTANT, INSTRUMENTS	018.167-034					1			1
SURVEY WORKER	205.367-054						9		9
SURVEYOR AIDE	869.567-010						1		1
CLUSTER TOTAL		0	17	19	0	1	10	0	47

TC3-CHEMICAL TECHNOLOGY OCCU.

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
CHEMICAL TECHNOLOGIES	5305								
CHEMICAL MIXING SUPERVISOR	550.132-010						2		2
FIBERGLASS LAMINATOR	806.684-054						2		2
CLUSTER TOTAL		0	0	0	0	0	4	0	4

TC4-ENVIRONMENTAL CONTRL TECHN

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
TRANSPORTATION & PUBLIC UTILITY	5011								
SANITATION & PUBLIC HEALTH INSP	5408			5					5
PUBLIC WORKS COMMISSIONER	188.117-030						1		1
INFORMATION ATTENDANT	188.117-106						1		1
CITY PLANNING AIDE	199.364-010						2		2
PLANNING AND RESEARCH AIDE	199.364-014						13		13
SANITARY LANDFILL OPERATOR	955.463-010						1		1
CLUSTER TOTAL		0	0	5	0	0	18	0	23

TC5-MECHANICAL TECHNOLOGY OCCU

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
MECHANICAL TECHNOLOGIES	5315			6					6
ENGINEERING ASSISTANT,MECHANICAL EQUIP	007.161-018					1			1
CLUSTER TOTAL		0	0	6	0	1	0	0	7

TC6-INSTRUMENT TECHNOLOGY OCCU

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
INSTRU MAINT. & WATCH MAKING	17.2100		7						7
ELECTROMECHANICAL TECHNOLOGIES	5311								
AGRICULTURAL ENGINEERING TECH	5399								
OTHER, MECHANICAL & ENGINEER	5399								
ELECTICAL ENGINEER	003.061-010					1			1
WAX MOULDER JEWELRY	549.685-038						1		1
INSTRUMENT MAKER	600.280-010								
ASSEMBLER SMALL PARTS	706.684-022						1		1
PIANO TUNER	730.361-010					1			1
ASSEMBLER CAMPER	806.684-018						2		2
AUTO ACCESSORIES INSTALLER	806.684-038						2		2
ASSEMBLER UNIT ORNAMENTAL MET	809.681-010						1		1
CLUSTER TOTAL		0	7	0	0	2	7	0	16

TC7-TEXTILE TECHNOLOGY OCCU

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
CLOTHING MANAGEMENT PROD.	09.0202	5							5
SHOE REPAIR	17.3402				10				10
HOME ECONOMICS TECH.	5405								
LAUNDRY WORKER	302.685-010						1		1
LAUNDERER HAND	361.684-014						2		2
LAUNDRY WORKER	361.687-018						2		2
DRY CLEANER	362.382-014						2		2
HAND DRY CLEANER	362.664-010						1		1
SHOE REPAIRER	365.361-014					1			1
SHOE REPAIR PERSON	365.361-014						2		2
LAUNDROMAT MANAGER	369.167-010						1		1
LAUNDRY WORKER	369.684-014						1		1
FURNITURE UPHOLSTERER	780.381-018						1		1
FURNITURE UPHOLSTERER APPRENTI	780.381-022						2		2
AUTO SEAT COVER AND CONV.TOP I	780.384-010						1		1
FABRICATOR FOAM RUBBER	780.684-062						1		1
FUR CUTTER	783.381-010						1		1
BINDER TEXTILE	787.682-010						2		2
COBBLER	788.381-010						2		2
NET MAKER	789.684-030						2		2
DRAPERY HANGER	869.484-014						1		1
CLUSTER TOTAL		5	0	0	10	1	25	0	41

TC8-COMMERCIAL AVIATION OCCU

DISCIPLINE TITLE	SYST-CDE	SUPPLY SOURCES: PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
COMMERCIAL PILOT TRAINING	16.0601				48				48
AVIATION OCCUPATIONS	17.0400		30						30
AERONAUTICAL AND AVIATION TECH	5302								
CLUSTER TOTAL		0	30	0	48	0	0	0	78

|----------S U P P L Y S O U R C E S----------|

TC9-INDUSTIAL ENGINEERING OCCU

DISCIPLINE TITLE	SYST-CDE	PUBLIC SEC	VO-ED VO-TECH	HIGHER ED.	PROP. SCHOOLS	VOC REHAB	CETA	JOB CORPS	SUPPLY TOTALS
INDUSTRIAL TECHNOLOGIES	5312								
ASSEMBLER SMALL PARTS	706.684-022						1		1
SPRING ASSEMBLER	706.684-090						1		1
ASSEMBLER PRODUCTION	706.687-010						1		1
CLUSTER TOTAL		0	0	0	0	0	3	0	3
GRAND CUM.		2026	1278	1379	1412	70	3027	260	9452

SECTION II

Montana Occupational Employment Statistics Program

DEMAND

Montana's 1990 Industry/Occupation Projections were produced to provide reliable estimates of occupational demand. For the first time the projections were produced using a matrix based on the Occupational Employment Statistics (OES) survey. Prior to this year the projections were generated using a 1970 census-based matrix. The OES survey-based matrix is more accurate, as well as reliable, because the survey deals with employers rather than with households.

There are three major components to the Occupational Employment Statistics program:

(1) Survey of non-farm wage and salary employment;
(2) Industry/Occupation matrix;
(3) Projections.

The OES survey involved a periodic mailing of survey forms to non-agricultural employers. This is done in a three year cycle. Different major industries are surveyed each year so that the entire sample is completed each three years.

The matrix is a model representing the occupational staffing patterns of each industry. The staffing patterns are based on the result of the OES survey. An important function of the matrix is that it shows where people work (industries) and what they do (occupations).

The third component of the program is the projections. This is the primary goal of the OES program. There are three elements of the projections: Industry Projections, Occupation Projections, and Job Openings. Job openings are made up of openings due to growth and openings due to separations from the labor force.

The projections show what is likely to happen barring major changes from past trends. The major economic assumptions used by the U.S. Bureau of Labor Statistics have been observed in these projections.

The assumptions are as follows:

(1) The institutional framework of our economy will not change radically.
(2) There will be no major events such as a widespread, long-lasting energy shortage or a war which would alter significantly the industrial structure of our economy or the rate of economic growth.
(3) Current technological, scientific, and social trends, such as values placed on work, education, income and leisure, will continue.

This projection information can help us look into the future with some confidence. It is necessary to match individuals and jobs to decrease unemployment and increase job satisfaction. This would also benefit the business community and taxpayers. Through the use of the information provided, better decisions can be made for the future by having a more realistic knowledge of Montana's employment trends. The following is an explanation of the information contained in the Montana Demand Report.

Demand Organization

Demand

The Montana Demand Report consists of the following information:

AG1 - Agriculture Production: Is the cluster that the occupations relate to. The same clusters are used to aggregate training programs found in the supply report. By using this clustering technique, we are able to compare occupations in which people work to the related programs that people are trained in, which indicates if people are being trained to work in occupations that will continue to exist and provide future employment opportunities.

OES Matrix Code: Occupational Employment Statistics Matrix code is an eight digit code which is derived from the Dictionary of Occupational Titles (DOT) that is generally, but not always, compatible with other occupational classification structures. The next column in the report is the OES Matrix title or the title of the occupations that people are employed in.

Current Employment - 1980. The data in this column represents the number of people currently employed in Montana in the base year of 1980.

Projected Employment - 1990: The data in this column is an estimate of the number of people expected to be employed in the corresponding occupation in 1990. This data is computed by

incorporating two factors: (1) openings because of growth or decline in the level of occupational demand and, (2) replacement demand resulting from labor force separations. The growth (or decline) in occupational demand occurs because of changes in business/economic conditions and technological change. First, industry employment is projected using procedures established by the Bureau of Labor Statistics. The projections are then used to convert the industry employment (captured by a survey) to occupational employment in each industry. The results are totaled across industries to obtain projected employment by occupation.

Average Growth: The data in this column indicates the average annual growth due to changes in business/economic conditions and technological change.

Average Replacements: Data in this column refers to the number of job openings that will occur as individuals leave their occupation because of retirement or death. Job openings occurring because of occupational transfers and migration are not incorporated because there is no valid data available at this time.

Average Annual Openings: The data in this column is made up of two components, (1) job openings resulting from industry growth and, (2) job openings resulting from separation (deaths and retirements). These two components are added together to achieve total average annual openings by occupation.

Supply: This column contains the cluster total of the supply report. By comparing the cluster total of the average annual openings to the supply total we can get a comparison which indicates the average annual job openings with the total number of people who have been trained and are seeking work in this occupation.

OES Data Limitations:

- The current Montana OES program generates projections of occupational employment only for non-agricultural wage and salary jobs.
- Job openings resulting from causes other than deaths and retirements are not developed, such as migration and occupational transfers. Openings are based on separation rates provided by the Bureau of Labor Statistics.
- The occupational employment projections produced by the OES Program should not be considered precise measurements, but are "best estimates" based on a sample of Montana employers and historical industry employment trends.

AG1-AGRICULTURE PRODUCTION

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	61086230	SUGAR BOILERS	25	19				
CLUSTER TOTAL			25	19				148

AG2-AGRICULTURE BUSINESS

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10040200	AGRICULTURAL SCIENTISTS	497	542	5	16	21	
10080201	BIO & AGRICUL Scientists	17	13				
50142603	MILLERS						
61086223	PRESSERS,EXPELLER OPERATORS	12	9				
61086236	FEED PELLET MILL OPERATORS	51	58	1	1	2	
61086241	GRAIN RECEIVERS						
61089013	DEHAIRING MACHINE OPERATORS	19	20				
61089052	EXTRACTOR OPERATORS,EXT PL OP						
61089061	SPLITTING MACHINE FEEDERS						
61089065	STICKERS						
61089069	STUNNERS						
61089070	TACKERS,TOGGLERS,& PASTERS						
61089073	TREATERS						
80000200	ANIMAL CARETAKERS	142	156	1	5	6	
80001016	WEIGHERS,PRODUCTION						
CLUSTER TOTAL		738	798	7	22	29	135

AG3-AGRICULTURE MECHANICS

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10022005	AGRICULTURAL ENGINEERS	33	84	5	2	7	
	50081600	FARM EQUIPMENT MECHANICS	62	80	2	1	3	
CLUSTER TOTAL			95	164	7	3	10	37

AG4-HORTICULTURE & LANDSCAPING

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	80001401	GARDENERS & GROUNDSKEEPERS	806	1,057	25	25	50	
CLUSTER TOTAL			806	1,057	25	25	50	151

AG5-FORESTRY LOGGING & LUMBER

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10040601	BIOLOGICAL SCIENTISTS	432	436		10	10	
10041600	LIFE&PHYSICAL SCIENTISTS,NEC	117	140	2	1	3	
10081808	TIMBER CRUISERS	20	24		1	1	
10081812	PHYSICAL SCIENCE TECHNICIANS	9	25	2		2	
10241600	FORESTERS & CONSERV SCIENTIST	850	837		30	30	
50142001	LOG INSPECTORS,GRADERS,SCALER	55	63	1	4	5	
50142002	LUMBER GRADERS	136	157		9	9	
50142003	VENEER GRADERS	14	16		1	1	
50142004	SORTER OPERATORS,GREEN LUMBER	26	30		2	2	
61021001	VENEER LATHE OPERATORS	41	47	1	1	2	
61021005	LATHE OPERATORS,WOOD	11	13				
61021007	MILLING/PLANING MACHINE OPERA						
61021009	SHAPER &/OR ROUTER OPERATORS	98	113	2	2	4	
61021401	BORING MACHINE OPERATORS,WOOD						
61021404	WOOD MACHINISTS	36	47	1	1	2	
61080418	CORE LAYERS/SHEET TURNERS						
61081461	VENEER JOINTER OPERATORS						
61081464	PLANER OPERATORS	127	157	3	3	6	
61083637	TIPPLE OPERATORS	45	74	3	2	5	
61085003	CUT-OFF SAW OPERATORS,LUMBER	96	117	2	3	5	
61085004	CUT-OFF SAWYERS,LOG	34	40	1	1	2	
61085005	EDGERS,AUTOMATIC &/OR PONY	147	169	2	4	6	
61085006	GANG SAWYERS	23	26		1	1	
61085007	SAWYERS,TAIL	43	48	1	1	2	
61085008	HEAD SAWYERS	103	119	2	3	5	

AG5-FORESTRY LOGGING & LUMBER

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
61085011	RESAWYERS	50	58	1	1	2	
61085012	RIPSAW OPERATORS	56	74	2	2	4	
61085017	TRIM SAW OPERATORS	145	167	2	4	6	
61085018	VARIETY SAW OPERATORS	39	48	1	1	2	
61085614	KILN OPERATORS,LUMBER	48	56	1	2	3	
61085619	FURNACE,KILN,DRIER OPS	17	21				
61086803	TREATING ENGINEERS	17	21				
61086804	VENEER DRIERS						
61086806	HOT PLATE PLYWOOD PRESS OPS						
61086807	EDGE GLUERS						
61086808	POWER BARKER OPERATORS	103	120	2	2	4	
61086809	DOWEL MACHINE OPERATORS	9	11				
61086812	DADO OPERATORS	9	10				
61086817	CORE FEEDERS	13	15				
61087005	PULP REFINER OPERATORS						
61087006	PULPERS						
61088408	CHIPPERS	49	56	1	1	2	
61088846	TRANSFER CONTROLLERS,SAW MILL	16	19				
61089016	DIGESTER OPERATOR HELPERS						
62001003	LOG HANDLING EQUIPMENT OPERAT	106	123	2	2	4	
70100606	FISH & GAME WARDENS	109	115	1	5	6	
80001005	CHAIN OFFBEARERS,LUMBER	442	513	7	11	18	
80001006	KILN TRANSFER OPERATORS	21	23		1	1	
80001007	LOADERS,CAR & TRUCK	55	65	1	1	2	
80001008	LUMBER STRAIGHTENERS	56	64	1	1	2	

AG5-FORESTRY LOGGING & LUMBER

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	80001009	OFF-BEARERS	280	345	7	7	14	
	80001014	KILN STACKER OPERATORS	71	83	1	2	3	
	80001018	VENEER DRIER FEEDERS	37	43	1	1	2	
	80001801	CHASERS	25	29		1	1	
	80001802	CHOKER SETTERS,LUMBER	125	145	2	3	5	
	80001805	FALLERS &/OR BUCKERS	515	599	8	12	20	
	80001806	HEAD LOADERS	13	14				
	80001808	POND WORKERS,LUMBER	37	42	1	1	2	
	80001809	RIGGING SLINGERS	26	29		1	1	
	80001810	SECOND LOADERS						
	80002831	FOREST CONSERVATION WORKERS	201	210	1	7	8	
CLUSTER TOTAL			5,153	5,816	66	149	215	464

GX1-ADVERTISING

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10081814	SPECIFICATION WRITERS,ENGINEEr						
	10221201	WRITERS &/OR EDITORS	297	337	4	9	13	
	10221202	FILM EDITORS						
	10221203	REPORTERS & CORRESPONDENTS	207	228	2	6	8	
	10221404	MUSICIANS,INSTRUMENTAL	29	35	1	1	2	
	10221405	SINGERS	15	17				
	10221408	MUSIC DIRECTORS						
	10222000	PUBLIC RELATIONS SPECIALISTS	125	146	2	6	8	
	10222201	ANNOUNCERS	244	286	4	2	6	
	61089203	BILLPOSTERS	8	11				
CLUSTER TOTAL			925	1,060	13	24	37	119

GX2-DRAFTING

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10080601	DRAFTERS	623	894	27	20	47	
	10240400	ARCHITECTS	195	308	11	8	19	
CLUSTER TOTAL			818	1,202	38	28	66	102

GX3-COMMERCIAL ART

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10141401	MUSEUM TECHNICIANS,RESTORERS						
	10141403	TAXIDERMISTS						
	10141404	ALL OTHER TECHNICIANS	743	866	12	14	26	
	10221001	DESIGNERS	233	312	8	7	15	
	10221601	COMMERCIAL ARTISTS	108	128	2	4	6	
	10221604	PAINTERS,ARTISTIC						
	50020205	PICTURE FRAMERS	7	10				
CLUSTER TOTAL			1,091	1,316	22	25	47	151

GX4-PRINTING & GRAPHIC ARTS

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10221802	TELEVISION CAMERA OPERATORS						
	10221805	PHOTOGRAPHERS	86	102	2	3	5	
	50100202	SETTERS BINDERY MACHINES						
	50100204	BOOKBINDERS,HAND						
	50100205	BOOKBINDERS,MACHINE	34	38		1	1	
	50100206	BINDERY WORKERS,ASSEMBLY	47	64	2	1	3	
	50100207	BINDERY WORKERS,STITCHING	12	15				
	50100208	ALL OTHER BINDERY WORKERS	25	32	1	1	2	
	50100400	COMPOSITORS &/OR TYPESETTERS	140	154	1	3	4	
	50100803	ETCHERS &/OR ENGRAVERS			1		1	
	50101001	STRIPPERS PRINTING	21	24				
	50101002	CAMERA OPERATORS,PRINTING	50	59	1	1	2	
	50101003	PHOTOENGRAVERS	11	15				
	50101201	PRESS OPERATORS,PLATE PRINTER	49	64	2	1	3	
	50101202	OFFSET LITHOGRAPHIC PRESS OPS	184	208	2	3	5	
	50101203	PLATEMAKERS	19	23				
	50101207	LETTER PRESS OPERATORS	47	54	1	1	2	
	50101210	PROOF PRESS OPERATORS						
	61084400	OTHER PHOTO PROCESS WORKERS	150	204	5	4	9	
	61088401	SCREEN/STENCIL PRINTERS/SETTER						
	61088404	EMBOSS,STAMP,MARK MACHINE OPS						
	61089042	PRINTER-SLOTTER FEEDERS						
	61089095	PRESS ASSISTANTS & FEEDERS	25	28		1	1	
	61089096	COPY MARKERS						
CLUSTER TOTAL			900	1,084	18	20	38	26

ME1-MEDICAL RECORD TECHNOLOGIS

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10120600	HEALTH RECORD TECHNOLOGISTS	118	147	3	4	7	
CLUSTER TOTAL			118	147	3	4	7	4

HE10-PHYSICIAN

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10040602	MEDICAL SCIENTISTS						
	10100200	CHIROPRACTORS	11	17	1	1	2	
	10100400	DENTISTS	188	255	7	2	9	
	10101000	OPTOMETRISTS	13	20	1	1	2	
	10101400	PHYSICIANS &/OR SURGEONS	648	824	18	9	27	
	10101600	PODIATRISTS	8	11		1	1	
	10102000	VETERINARIANS	45	45		1	1	
CLUSTER TOTAL			913	1,172	27	15	42	0000

HE2-DENTAL ASSISTANT

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10120401	DENTAL ASSISTANTS	514	684	17	20	37	
CLUSTER TOTAL			514	684	17	20	37	16

HE3-DENTAL HYGIENIST

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10120402	DENTAL HYGIENISTS	177	240	6	6	12	
CLUSTER TOTAL			177	240	6	6	12	00

HE4-MEDICAL LAB TECHNICIAN

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10120201	MEDICAL LAB TECHNOLOGISTS	411	542	13	13	26	
	10120202	BIOCHEMISTRY TECHNOLOGISTS						
	10120203	MICROBIOLOGY TECHNOLOGISTS	9	11				
	10120204	CYTOTECHNOLOGISTS	11	14				
	10120205	HISTOLOGIC TECHNOLOGISTS	16	21	1		1	
	10120206	MEDICAL LAB ASSISTANTS	113	152	4	4	8	
	10120207	BLOOD BANK TECH Specialist						
	10121099	ALL OTHER MED & DENT TECHNICIan	81	103	2	2	4	
	50141200	DENTAL LAB TECHNICIANS	31	41	1		1	
CLUSTER TOTAL			672	884	21	19	40	00

HE5-LICENSED PRACTICAL NURSE

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10121002	SURGICAL TECHNICIANS	106	145	4	3	7	
	10121010	LICENSED PRACTICAL NURSES	1,558	2,149	59	73	132	
CLUSTER TOTAL			1,664	2,294	63	76	139	137

HE6-MEDICAL NURSING ASSISTANT

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10121006	EKG TECHNICIANS	31	40	1	1	2	
	10121007	EEG TECHNICIANS	14	19	1		1	
	70061010	NURSES AIDES/ORDERLIES	4,898	6,700	180	209	389	
	70061011	PSYCHIATRIC AIDES	201	278	8	9	17	
	70061013	MEDICAL ASSISTANTS	199	261	6	8	14	
CLUSTER TOTAL			5,343	7,298	196	227	423	81

HE7-TREATMENT SERVICES

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10101200	PHARMACISTS	454	560	11	22	33	
	10101801	OCCUPATIONAL THERAPISTS	45	56	1	1	2	
	10101802	MANUAL ARTS,MUSIC,REC THERAPISTS	49	61	1	1	2	
	10101803	SPEECH & HEARING CLINICIANS	214	265	5	6	11	
	10101804	PHYSICAL THERAPISTS	128	162	3	4	7	
	10101807	AUDIOMETRISTS	11	15				
	10101809	INHALATION THERAPISTS	160	216	6	5	11	
	10101810	ALL OTHER THERAPISTS	101	178	8	4	12	
	10121005	PROSTHETISTS,ORTHOTISTS	16	21	1		1	
	10121009	PHARMACY HELPERS	46	61	2	2	4	
	10121011	DIETETIC TECHNICIANS	26	36	1	1	2	
	10121012	PHYSICAL THERAPY TECHNICIANS	73	101	3	3	6	
	70060400	OCCUPATIONAL THERAPY AIDES	16	23	1	1	2	
CLUSTER TOTAL			1,339	1,755	43	50	93	38

HE8-RADIOLOGIC TECHNICIAN

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10120801	X-RAY TECHNICIANS	275	366	9	9	18	
	10120804	RADIOLOGIC TECHS & NUC MED TEch	95	124	3	3	6	
CLUSTER TOTAL			370	490	12	12	24	18

HE9-REGISTERED NURSE

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10100800	NURSES,PROFESSIONAL	4,232	5,639	141	198	339	
CLUSTER TOTAL			4,232	5,639	141	198	339	247

MK1-REAL ESTATE MARKETING

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10240802	LEASE BUYERS	38	77	4	2	6	
	10240805	RIGHT-OF-WAY AGENTS	102	109	1	4	5	
	10243811	TITLE EXAMINERS &/OR ABSTRACT	106	122	2	4	6	
	10243816	APPRAISERS REAL ESTATE	294	318	2	13	15	
	30001402	REAL ESTATE BROKERS	35	19	-1	2	1	
	30001403	SALES AGENTS,SALES REPS,REAL	106	130	2	7	9	
CLUSTER TOTAL			681	775	10	32	42	676

MK2-MARKETING MANAGEMENT

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10060200	ACTUARIES						
	10180201	FINANCIAL ANALYSTS	51	32	-2	2		
	10180202	ECONOMISTS	52	59	1	2	3	
	10180204	MEDIA ANALYSTS						
	10180205	MARKET RESEARCH ANALYSTS	12	32	2	1	3	
	20040800	PUBLIC ADM INSPECTORS	396	409	1	14	15	
	20061615	WHOLESALERS	689	854	17	31	48	
	20061699	ALL OTHER MANAGERS	15,822	19,356	353	702	1,055	
	30001601	BROKER & MARKET OPERATORS,COM	16	22	1	1	2	
	30001806	SALES CLERK SUPERVISORS	95	113	2	3	5	
CLUSTER TOTAL			17,133	20,877	375	756	1,131	204

MK3-RETAIL MARKETING

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10240801	PURCHASING AGENTS &/OR BUYERS	481	568	9	18	27	
10240803	MEDIA BUYERS	8	11				
10240804	BUYERS,RETAIL &/OR WHOLSL TRade	783	950	17	34	51	
10243820	SPECIAL AGENTS,INSURANCE	76	83	1	2	3	
10243899	ALL OTHER PROFESSIONAL WORKER	889	1,097	21	24	45	
20020800	SALES MANAGERS, RETAIL TRADE	1,322	1,641	32	30	62	
20061400	MANAGERS, Restaurant/Coffee Shop	1,088	1,429	34	50	84	
20061612	MANAGERS,STORE	3,851	4,593	74	168	242	
20061613	MANAGERS,AUTO SERVICE DEPT	308	356	5	13	18	
20061614	MANAGERS,AUTO PARTS DEPT	220	250	3	9	12	
30001005	SALES AGENTS,SALES REPS,INSUR	535	589	5	18	23	
30001604	SALES AGENTS,SALES REPS,FIN	14	17				
30001605	SALES AGENTS,SALES REPS,SECUR	158	234	8	6	14	
30001802	SALES CLERKS	8,477	10,074	160	364	524	
30001803	VENDORS	20	32	1	1	2	
30001899	ALL OTHER SALES WORKERS	8,689	10,461	177	376	553	
40066816	PURCHASE & SALES CLERKS,SECUR						
40066829	MARKING CLERKS TRADE						
61060802	PRODUCTION PACKAGERS	421	473	5	10	15	
61060804	BAGGERS	533	610	8	13	21	
70080608	GUIDES,TRAVEL						
70080609	MASSEURS OR MASSEUSES						
70080611	INSTRUCTORS,REDUCING	45	59	1	2	3	
70080618	CHECKROOM & LOCKER RM ATTNS						
70080619	GUIDES,SIGHTSEEING OR ESTABLH	27	40	1	1	2	

MK3-RETAIL MARKETING

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOYMENT-1980	PROJ EMPLOYMENT-1990	AVERAGE GROWTH	AVERAGE REPLACEMENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	70082800	USHERS,LOBBY ATTNS,TICKET TAKer	120	129	-3	1	-1	
	80002003	STOCK CLERKS,SALES FLOOR	1,399	1,643	24	23	47	
CLUSTER TOTAL			29,464	35,339	583	1,163	1,747	235

MK4-RECREATION & TOURISM

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10220200	ACTORS OR ACTRESSES	8	19	1		1	
	10220401	ATHLETES	109	181	7	3	10	
	10243201	GROUP RECREATION WORKERS	533	684	15	26	41	
	10243206	CAMP DIRECTORS	27	23		1	1	
	10243821	TRAVEL AGTS,TR ACCOM APPRAISER	141	183	4	6	10	
	40066833	FILM BOOKERS	8	19	1	1	2	
	50142800	MOTION PICTURE PROJECTIONISTS	78	84	-1	3	-2	
	70080401	RECREATION FACILITY ATTENDANT	303	398	10	10	20	
	70080402	GAME OPS,RIDE OPS,CONCESS WKR	73	116	4	3	7	
	70080403	PIN CHASERS	63	74	1	2	3	
	70080404	RACKERS,POOLROOM	11	13				
	70080407	LIFEGUARDS	532	622	9	17	26	
CLUSTER TOTAL			1,886	2,416	51	72	119	94

OF1-BOOKKEEPING & ACCOUNTING

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10080602	ESTIMATORS & DRAFTERS,UTILITIES	15	18				
10240201	ACCOUNTANTS & AUDITORS	2,607	3,152	55	100	155	
10240202	BUDGET ANALYSTS	25	38	1	1	2	
10240203	TAX EXAMINERS,COLLECTRS,REV	154	162	1	5	6	
10240204	TAX PREPARERS	85	111	3	3	6	
40040201	BOOKKEEPING/BILLING MACH OPS	775	976	20	29	48	
40040202	PROOF MACHINE OPERATORS	276	342	7	10	17	
40040203	TRANSIT CLERKS	21	28	1	1	2	
40041200	TABULATING MACHINE OPERATORS						
40060201	NEW ACCOUNTS TELLERS	261	345	8	9	17	
40060203	TELLERS	1,506	1,935	43	50	93	
40060601	ACCOUNTING CLERKS	2,380	2,893	51	92	143	
40060603	BOOKKEEPERS,HAND	3,583	4,529	95	141	236	
40060800	CASHIERS	5,294	6,319	103	192	295	
40061000	ELIGIBILITY WORKERS,WELFARE	343	366	2	10	12	
40061200	CLERICAL SUPERVISORS	1,618	1,945	33	48	81	
40062211	CREDIT REPORTERS	66	71	1	2	3	
40062400	PRODUCTION CLERKS	171	208	4	3	7	
40062803	CLAIM ADJUSTERS	185	204	2	4	6	
40064000	PAYROLL/TIMEKEEPING CLERKS	561	690	13	20	33	
40065211	STATISTICAL CLERKS	429	528	10	14	24	
40066803	COIN MACH OPS/CURRENCY SORTER	12	16				
40066814	SECURITIES CASHIERS,EXCHANGE	12	17	1		1	
40066823	STATEMENT CLERKS	177	224	5	6	11	
50081003	AUTO REPAIR SERVICE ESTIMATOR	14	16				

OF1-BOOKKEEPING & ACCOUNTING

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOYMENT-1980	PROJ EMPLOYMENT-1990	AVERAGE GROWTH	AVERAGE REPLACEMENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
CLUSTER TOTAL		20,570	25,133	459	740	1,198	320

OF2-CLERICAL OFFICE PRACTICE

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10243808	COST ESTIMATORS	310	379	7	12	19	
10243813	ESTIMATORS,PRINTING SERVICES						
10243814	UNDERWRITERS	150	149		7	7	
10243815	INVESTIGATORS,INSURANCE						
10243817	ASSESSORS	84	91	1	7	8	
10243818	CLAIMS TAKERS,UNEMP BENEFITS	16	17		1	1	
10243822	CLAIM EXAMINERS,PRPTY/CSLTY	25	28		1	1	
30001804	CONTRIBUTION SOLICITORS	26	27		1	1	
30001805	CRATING & MOVING ESTIMATORS	15	20	1	1	2	
40020600	TYPISTS	3,093	3,578	49	110	159	
40040602	PERIPHERAL EDP EQPT OPERATORS	190	215	3	2	5	
40040800	DUPLICATING MACHINE OPERATORS	25	35	1	1	2	
40041400	ALL OTHER OFFICE MACHINE OPS	200	216	2	9	11	
40041402	ADDRESSING MACHINE OPERATORS						
40061400	COLLECTORS	192	223	3	8	11	
40061601	CAR RENTAL CLERKS	46	56	1	2	3	
40061602	COUNTER CLERKS						
40061603	DESK CLERKS	608	805	20	30	50	
40061604	ORDER CLERKS	439	544	10	21	31	
40061605	CIRCULATION CLERKS	41	43		2	2	
40061606	CLASSIFIED AD CLERKS,NEWSPAPER						
40061607	TELEPHONE AD TAKERS,NEWSPAPER	26	29		1	1	
40061608	DESK CLERKS,BOWLING FLOOR	70	83	1	2	3	
40061803	DISPATCHERS,POLICE,FIRE,AMBUL	521	663	14	20	34	
40061804	DISPATCHERS,VEHICLE,SERV OR W	284	350	11	11	22	

OF2-CLERICAL OFFICE PRACTICE

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
40062208	ADJUSTMENT CLERKS	85	98	1	3	4	
40062209	CHECKING CLERKS	25	32	1	1	2	
40062210	CLAIMS CLERKS	194	210	2	7	9	
40062222	BOX ESTIMATORS						
40062601	FILE CLERKS	589	731	14	21	35	
40062602	PERSONNEL CLERKS	295	334	4	10	14	
40062603	ADMISSIONS EVALUATORS	9	11				
40063601	MESSENGERS,BANK	22	28	1	1	2	
40063602	MESSENGERS	47	62	2	3	5	
40063800	METER READERS	239	280	4	4	8	
40064410	PROOFREADERS,COMPOSED COPY	29	35	1	2	3	
40064411	PROOFREADERS, CLERICAL						
40064802	RECEPTIONISTS	1,227	1,604	38	55	93	
40065001	SHIPPING & RECEIVING CLERKS	883	1,081	20	20	40	
40065002	SHIPPING PACKERS	507	617	11	12	23	
40065205	BROKERAGE CLERKS	16	23	1	1	2	
40065209	RATERS	175	198	2	5	7	
40065214	METER READERS,TAXI	22	26		1	1	
40065215	TALLY CLERKS,SAW MILL						
40065216	COURT CLERKS	259	328	7	8	15	
40065217	INSURANCE CHECKERS	21	24		1	1	
40065402	PROCUREMENT CLERKS	72	80	1	2	3	
40065405	YARD CLERKS	60	54		1	1	
40066000	TELEGRAPH OPERATORS	72	64		2	2	
40066600	WEIGHERS,RECORD KEEPING	76	92	2	3	5	

OF2-CLERICAL OFFICE PRACTICE

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
40066801	LOAN CLOSERS	192	251	6	7	13	
40066804	CALL-OUT OPERATORS						
40066807	CORRESPONDENCE CLERKS	12	16				
40066811	GENERAL CLERKS,OFFICE	6,669	8,029	136	235	371	
40066812	IN-FILE OPERATORS	9	10				
40066815	POLICY CHANGE CLERKS	19	23		1	1	
40066818	REAL ESTATE CLERKS	122	119		4	4	
40066820	SAFE DEPOSIT CLERKS	51	63	1	2	3	
40066824	SERVICE CLERKS	90	97	1	3	4	
40066825	TITLE SEARCHERS	55	63	1	2	3	
40066826	TRAFFIC CLERKS	52	61	1	2	3	
40066838	RATE CLERKS,FREIGHT	80	98	2	3	5	
40066840	TOWN CLERKS	209	267	6	10	16	
40066841	CREDIT CLERKS,BANKS&/OR Ins.	118	151	3	4	7	
40066842	MORTGAGE CLOSING CLERKS	56	76	2	2	4	
40066844	SORTING CLERKS,BANK	53	68	2	2	4	
40066845	INSURANCE CLERKS	35	44	1	1	2	
40066846	INSURANCE CLERKS,MEDICAL	317	425	11	12	23	
40066848	LICENSE CLERKS	114	134	2	3	5	
40066898	ALL OTHER OFFICE CLERICAL WKR	1,085	1,245	16	37	53	
40066899	ALL OTHER PLANT CLERICAL WKRS	255	279	2	9	11	
61082604	TRAILER RENTAL ATTENDANTS	26	31	1	1	2	
80002001	ORDER FILLERS	524	621	19	9	28	
CLUSTER TOTAL		21,428	25,734	449	761	1,210	504

OF3-COMMUNICATIONS CLERICAL

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10080801	SOUND RECORDING & REPRO TECHN						
10080808	BROADCAST TECHNICIANS	128	148	2	1	3	
10141000	RADIO OPERATORS						
10141405	TECHNICAL ASSISTANTS,LIBRARY	234	290	6	5	11	
10222202	BROADCAST NEWS ANALYSTS	40	47	1		1	
10240603	MUSEUM CURATORS	38	51	1	1	2	
10241000	CLERGY	20	26	1	1	2	
10242201	LAW CLERKS	176	221	5	8	13	
10242401	LIBRARIANS	676	850	17	27	44	
10242402	AUDIO VISUAL SPECIALISTS	61	76	2	2	4	
10243405	COMMUNITY ORGANIZATION WORKER	209	289	8	10	18	
20041200	POSTMASTERS &/OR MAIL SUPERIN	347	357	1	20	21	
40062000	SURVEY WORKERS	29	40	1	1	2	
40062216	CUSTOMER SERV REPS,PRINT	9	12				
40062801	CLAIM EXAMINERS,INSURANCE	113	152	4	5	9	
40063000	LIBRARY ASSISTANTS	654	826	17	26	43	
40063200	POSTAL MAIL CARRIERS	1,347	1,388	4	36	40	
40063401	FREIGHT HANDLERS	14	12				
40063402	MAIL CLERKS	105	122	2	4	6	
40064200	POSTAL SERVICE CLERKS	362	373	1	9	10	
40064803	SWITCHBD OPS/RECEPTIONISTS	497	658	16	22	38	
40064804	TRAVEL COUNSELORS,AUTO CLUB	49	47		2	2	
40065201	GAS DISPATCHERS	11	13				
40065404	STOCK CLERKS,STOCKRM, Warehse.	1,978	2,368	39	45	84	
40065600	TEACHERS AIDES/EDUC ASSISTANT	2,994	3,799	81	89	170	

OF3-COMMUNICATIONS CLERICAL

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	40066201	SWITCHBOARD OPERATORS	381	467	9	16	25	
	40066202	CENTRAL OFFICE OPERATORS	397	443	5	15	20	
	40066203	DIRECTORY ASSISTANCE OPERATOR	327	364	4	13	17	
	40066204	PRIVATE BRANCH SERVICE ADVISOR						
	40066401	STATION AGENTS	50	45		1	1	
	40066402	TRAFFIC AGENTS	72	80	1	2	3	
	40066403	RESERVATION AGENTS						
	40066404	TRANSPORTATION AGENTS	135	191	6	4	10	
	40066405	TICKET AGENTS	164	214	5	5	10	
	40066808	SERVICE REPRESENTATIVES	309	343	3	9	12	
	40066828	TRAVEL CLERKS	31	30		1	1	
	50144022	DISPATCHERS,REFINERY						
	61089097	MAILERS	33	39	1	1	2	
CLUSTER TOTAL			11,990	14,381	243	381	624	195

OF4-PERSONNEL & LABOR RELATION

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10180600	PSYCHOLOGISTS	306	448	14	7	21	
10180800	SOCIOLOGISTS	13	20	1	1	2	
10181200	ALL OTHER SOCIAL SCIENTISTS	96	122	3	5	8	
10201000	TEACHERS,ADULT EDUCATION	516	610	9	15	24	
10202001	TEACHERS,VOCATIONAL ED OR TRA	640	853	21	22	43	
10202003	GRADUATE ASSISTANTS	290	358	7	10	17	
10202004	EXTENSION SERVICE SPECIALISTS	22	28	1	1	2	
10202005	PROFESSORS	712	880	17	21	38	
10202006	ASSOC. PROFESSORS	445	550	11	13	24	
10202007	ASST. PROFESSORS	400	494	9	12	21	
10202008	LECTURERS	178	220	4	5	9	
10202009	ATHLETIC COACHES	45	55	1	1	2	
10203002	PRESCH. &/OR ELEM. SCH. TEACH	6,176	7,689	151	184	335	
10205000	TEACHERS,SECONDARY	4,621	5,708	109	162	271	
10206001	DANCE INSTRUCTORS						
10206003	INSTRUCTORS,CORRESP. SCH.	178	220	4	5	9	
10206099	ALL OTHER TEACHERS	91	176	9	6	15	
10220403	SPORTS INSTRUCTORS	110	140	3	3	6	
10220405	ATHLETIC TRAINERS						
10242001	JUDGES	138	172	3	17	20	
10242002	MAGISTRATES	133	170	4	16	20	
10242202	LAWYERS	919	1,303	38	47	85	
10242203	PARALEGAL PERSONNEL	136	207	7	7	14	
10242802	PERSONNEL,LABOR REL SPECIALIST	767	837	7	22	29	
10242803	EMPLOYMENT INTERVIEWERS	282	301	2	8	10	

OF4-PERSONNEL & LABOR RELATION

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10243401	CASEWORKERS	1,119	1,446	33	51	84	
	10243404	WELFARE INVESTIGATORS	21	24		1	1	
	10243600	VOCATIONAL & EDUC COUNSELORS	480	697	22	20	42	
	10243803	HOSPITAL INS REPRESENTATIVES						
	20041000	CHIEF EXECUTIVES,LEGIS.	1,249	1,540	29	37	66	
	20041601	PRINCIPALS	711	879	17	21	38	
	20041602	ASST. PRINCIPALS	317	391	7	9	16	
	20041603	SUPERINTENDENTS	175	216	4	5	9	
CLUSTER TOTAL			21,286	26,754	547	734	1,281	5

OF5-SECRETARIAL OFFICE PRACTIC

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	40020200	SECRETARIES	6,135	7,780	165	241	406	
	40020400	STENOGRAPHERS	754	931	18	31	49	
CLUSTER TOTAL			6,889	8,711	183	272	455	463

OF6-OFFICE MANAGEMENT

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10243809	CREDIT ANALYSTS,CHIEF	72	95	2	3	5	
	10243810	CREDIT ANALYSTS	134	174	4	5	9	
	40062201	CREDIT AUTHORIZERS	19	23		1	1	
CLUSTER TOTAL			225	292	6	9	15	9

OFF-KEY ENTRY OCCUPATIONS

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOYMENT-1980	PROJ EMPLOYMENT-1990	AVERAGE GROWTH	AVERAGE REPLACEMENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	40040601	COMPUTER OPERATORS	592	766	17	8	25	
	40041000	KEYPUNCH OPERATORS	517	627	11	17	28	
CLUSTER TOTAL			1,109	1,393	28	25	53	158

OF8-COMPUTER SCIENCE OCCU.

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10081803	COMPUTERS,PROSP & COMPUTERS	59	118	6	1	7	
	10160200	COMPUTER PROGRAMMERS	469	596	13	5	18	
	10160400	SYSTEMS ANALYSTS,EDP	227	263	4	3	7	
CLUSTER TOTAL			755	977	23	9	32	77

PS1-EMERGENCY MEDICAL TECH.

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10121008	EMERGENCY MEDICAL TECHNICIANS	87	105	2	3	5	
CLUSTER TOTAL			87	105	2	3	5	0000

PS2-FIRE & FIRE SAFETY

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	50142201	FIRE BOSSES						
	70100401	FIRE FIGHTERS	798	1,008	21	13	34	
	70100402	FIRE INSPECTORS	83	102	2	1	3	
	70100403	FIRE OFFICERS	190	243	5	3	8	
CLUSTER TOTAL			1,071	1,353	28	17	45	4

PS3-POLICE SCIENCE

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	70100202	CROSSING OR BRIDGE TENDERS						
	70100601	GUARDS & DOORKEEPERS	1,337	1,748	41	125	166	
	70100607	CORRECTION OFFICERS &/OR JAIL	414	474	6	36	42	
	70100800	U.S. MARSHALLS	15	14		1	1	
	70101002	STORE DETECTIVES						
	70101003	RAILROAD POLICE	27	24		1	1	
	70101004	POLICE OFFICERS	224	278	5	5	10	
	70101005	POLICE DETECTIVES	154	177	2	4	6	
	70101006	POLICE PATROLMEN/WOMEN	1,704	2,083	38	41	79	
	70101007	PARKING ENFORCEMENT OFFICERS	81	103	2	2	4	
	70101201	SHERIFFS	221	282	6	5	11	
	70101202	BAILIFFS	25	32	1	1	2	
CLUSTER TOTAL			4,202	5,215	101	221	322	91

SK1-ELECTRICAL OCCUPATIONS

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10080803	ELECTRICAL & ELECTRONIC TECHN	889	1,062	17	10	27	
50021401	ELECTRICIANS	1,656	1,715	6	37	43	
50081400	DATA PROCESSING MACH MECHANIC						
50082002	ELECTRIC METER INSTALLERS,ETC						
50082005	GAS & ELEC APPLIANCE REPAIRER	79	82		2	2	
50082007	HOUSEHOLD APPLIANCE INSTALLER	61	66	1	1	2	
50082400	OFF MACH SERVICERS/CASH REG	152	198	5	2	7	
50082801	ELECTRIC TRACK SWITCH MAINTAI	11	10				
50082802	SIGNAL MAINTAINERS	117	105		3	3	
50083204	ELECTRIC MOTOR REPAIRERS	17	20				
50083211	LAUNDRY MACHINE MECHANICS	30	29		1	1	
50083215	COIN MACHINE SERVICERS,REPAIR	85	110	3	2	5	
50083218	SEWING MACHINE MECHANICS	7	12	1		1	
50083225	PINSETTER MECHANICS,AUTOMATIC	24	28		1	1	
50120201	CABLE SPLICERS	92	101	1	1	2	
50120202	LINE INSTALLERS,REPAIRERS,	645	727	8	7	15	
50120203	TROUBLE SHOOTERS,POWER LINE	45	50	1		1	
50121001	INSTALLERS,REPAIRERS,SEC MAIN	722	807	9	6	15	
50121003	STATION INSTALLERS	24	27				
50121004	TELEGRAPH EQUIPMT MAINTAINERS						
50121008	CABLE INSTALLERS	47	52	1		1	
50121009	FRAME WIRERS	18	20				
50121010	CENTRAL OFFICE REPAIRERS	134	149	2	1	3	
50121011	TROUBLE LOCATORS,TEST DESK	222	248	3	2	5	
61080438	ELEC MECH EQUIPMT ASSEMBLERS	9	13				

SK1-ELECTRICAL OCCUPATIONS

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	61080439	ELEC & ELECT ASSEMBLERS	34	50	2	1	3	
	61083621	LAMP KEEPERS,REPAIRERS						
CLUSTER TOTAL			5,120	5,681	60	77	137	89

SK2-ELECTRONIC OCCUPATIONS

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	50082600	RADIO & TV SERVICES & REPAIRERS	133	149	2	3	5	
	50083224	ELECTROMEDICAL EQUIPMT REPAIR	18	23	1		1	
	61080415	WIRERS,ELECTRONIC	11	16	1		1	
	61088288	IMPREGNATORS,ELECTRONIC						
CLUSTER TOTAL			162	188	4	3	7	102

SK3-AIR CONDITIONING & REFRIG

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	50080200	REFRIG MECHANICS,A/C MECHANIC	192	223	3	3	6	
CLUSTER TOTAL			192	223	3	3	6	29

SK4-WELDING OCCUPATIONS

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	61022002	WELDERS & FLAMECUTTERS	937	1,100	16	16	32	
	61088035	CAGE MAKERS,HAND OR MACHINE		10	1		1	
CLUSTER TOTAL			937	1,110	17	16	33	354

SK5-CARPENTRY & CONST. TRADE

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
50020201	CARPENTERS	2,461	2,992	53	111	164	
50020601	BRICKLAYERS	199	265	7	5	12	
50020602	STONE MASONS	14	19	1		1	
50020606	REFRACTORY MATERIALS REPAIRER	18	11				
50021201	CEMENT MASONS	260	363	10	8	18	
50021202	CONCRETE WALL GRINDER OPERATOR	13	17				
50021203	CONCRETE RUBBERS			7		7	
50021802	CONCRETE MIXER OPERATORS	16	23	1		1	
50021805	FINE-GRADERS	23	29	1	1	2	
50021806	FORM TAMPER OPERATORS,ETC	13	16				
50022000	FLOOR SANDING MACHINE OPERATOR						
50022200	PAINTERS,MAINTENANCE	369	437	7	14	21	
50022600	PAPERHANGERS	14	17		1	1	
50022801	PLASTERERS	13	18	1	1	2	
50023203	PLUMBERS &/OR PIPEFITTERS	1,218	1,386	17	34	51	
50023600	ROOFERS	131	148	2	2	4	
50023800	STRUCTURAL STEEL WORKERS	88	107	2	2	4	
50024001	TILE SETTERS						
50024002	CEILING TILE INSTALLRS,FLR LA	16	22	1		1	
50040003	SUPERVISORS,NONWORKING	2,820	3,428	61	82	143	
50082004	GAS METER INSTALLERS	10	12				
50082009	WATER METER INSTALLERS	12	54	1	1	2	
50083230	SIGN ERECTORS	9	13				
50140400	CABINETMAKERS	233	282	5	11	16	
50140600	CARPET CUTTERS,CARPET LAYERS	52	64	1		1	

SK5-CARPENTRY & CONST. TRADE

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
50141400	FURNITURE FINISHERS	12	14				
50141801	GLASS INSTALLERS						
50141802	GLAZIERS	175	219	4	4	8	
50144801	PIPELINERS	10	9				
50144821	MAINTENANCE REPAIRERS,GEN UTI	2,142	2,678	54	44	98	
50144825	MOBILE HOME REPAIRERS	65	93	3	1	4	
50144899	ALL OTHER SKILLED CRAFT WORKE	889	1,070	18	18	36	
61080200	ASBESTOS & INSULATION WORKERS	136	168	3	2	5	
61080401	MOBILE HOME SET-UP OPERATORS	70	91	2	2	4	
61080601	BLASTERS,MINING & QUARRYING	25	37	1	1	2	
61080602	BLASTERS,CONSTRUCTION						
61080605	SHOOTERS OR SHOOTERS,SEISMOGR	16	31	2	1	3	
61082001	DRY WALL APPLICATORS	17	20				
61082002	LATHERS	9	11				
61082003	TAPERS						
61082402	SANDBLASTERS/SHOTBLASTERS						
61083805	ASPHALT MIXING MACH TENDERS						
61083806	ASPHALT-PLANT OPERATORS	48	59	1	1	2	
61084210	PAINTERS,PRODUCTION	121	155	3	2	5	
61084602	NAILING MACHINE OPERATORS	40	46	1	1	2	
61087038	TAPING MACHINE OPERATORS						
61087408	ASPHALT-PLANT DRIER OPERATORS						
61088038	BLOCKMAKING MACHINE OPERATORS	12	15				
61088040	CONCRETE STONE FABRICATORS	61	75	1	1	1	
61088048	SAND BLASTERS,STONE						

SK5-CARPENTRY & CONST. TRADE

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	61088058	BRICK & TILE MAKING MACH OPS						
	61088070	CONCRETE VAULT MAKERS		8				
	61088814	CONCRETE PIPE MAKERS		5	1		1	
	61088851	PIPE STRIPPERS		8	1		1	
	61088852	LAYOUT MARKERS,WOOD						
	61088853	VENEER REPAIRERS,HAND	21	24		1	1	
	62000802	FURNITURE ASSEMBLERS & INSTAL	38	48	1	1	2	
	80000601	AIR HAMMER OPERATORS	21	25		1	1	
	80000602	ASPHALT HEATER TENDERS	9	10				
	80000603	FORM SETTERS,METAL ROAD FORM	54	87	3	2	5	
	80000607	FENCE ERECTORS	110	125	2	1	6	
	80000609	PIPELAYERS	50	60	1	2	3	
	80000610	REINFORCING-IRON WORKERS	338	409	7	12	19	
	80000611	TRENCH SEWER SHAPERS						
	80000628	HIGHWAY MAINTENANCE WORKERS	563	719	16	20	36	
	80000629	ASPHALT RAKERS	22	27	1	1	2	
	80002823	HELPERS,TRADES	2,320	2,788	47	79	126	
	80002832	SEPTIC TANK SERVICERS,ETC						
	80002899	ALL OTHER LABORERS & UNSKLD W	6,270	7,170	89	175	264	
CLUSTER TOTAL			21,666	26,027	440	646	1,088	387

SK6-HEAVY EQUIP. MECH.& OPER.

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
50020202	ROOF BOLTERS	8	11				
50021000	LOGGING TRACTOR OPERATORS	327	381	5	8	13	
50021803	DREDGE OPERATORS						
50021807	HEAVY EQUIPMENT OPERATORS	3,143	3,918	78	90	168	
50021809	BATCH PLANT OPERATORS	86	106	2	1	2	
50021810	BALLAST CLEAN MACH OPERATORS	163	146	-1	4	3	
50061600	MILLWRIGHTS	337	368	3	10	13	
50081801	ELEVATOR INSTALLERS/REPAIRERS	22	28	1	1	2	
50081804	HYDROELECTRIC MACHINE MECHS	71	71		2	2	
50081805	MINE MACHINERY MECHANICS	55	87	3	2	5	
50081806	MARINE MECHANICS/REPAIRERS	17	23	1		1	
50081807	MAINTENANCE MECHANICS	536	643	11	13	24	
50081810	TREATMENT PLANT MECHANICS	42	54	1	1	2	
50083222	DIESEL MECHANICS	1,482	1,855	37	36	73	
50140801	CRANE,DERRICK,& HOIST OPER	316	366	5	7	12	
50140802	LOADER ENGINEERS	101	116	2	2	4	
50140803	YARDER ENGINEERS	65	75	1	1	2	
50144006	GAS PUMPING STATION OPERATORS	26	28		1	1	
50144008	OIL PUMPERS	59	120	6	3	9	
50144010	PUMPERS,HEAD	61	124	6	3	9	
61081802	CABLE DRILLERS			1		1	
61081804	DRILLERS,MACHINE	154	210	6	5	11	
61081808	ROTARY DRILL OPERATORS	423	839	42	16	58	
61081809	ROTARY DRILL OPER HELPERS	567	1,145	58	22	80	
61083609	CLEAN OUT DRILLERS	52	105	5	2	7	

SK6-HEAVY EQUIP. MECH.& OPER.

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
61083616	DERRICK OPERATORS,PETROL	201	407	21	9	30	
61083618	DRIER OPERATORS,COAL OR ORE	15	22	1	1	2	
61083622	LOADING MACHINE OPERATORS	30	43	1	1	2	
61083628	RIG BUILDERS	26	50	2	1	3	
61083629	ROUSTABOUTS	1,147	2,322	118	51	169	
61083632	SERVICE UNIT OPERATORS,OIL	115	231	12	5	17	
61083634	SHAKER TENDERS						
61083639	WELL PULLERS	87	176	9	4	13	
61083643	PANELED OPERATORS,GRIND MILL	91	117	3	3	6	
61083646	MILL &/OR GRINDER OPS,MINERAL	76	93	2	2	4	
61083804	ASPHALT BLENDERS						
61083818	COMPOUNDERS	31	31				
61083854	MIXERS,STONE,CLAY,GLASS,ETC	11	17	1		1	
61084000	OILERS	298	364	7	9	16	
61088436	LOADING MACHINE OPERATORS						
61088444	PUMP OPERATORS	64	83	2	2	4	
61088445	PUMP OPERATOR HELPERS						
80000605	DREDGE DIPPER TENDERS						
80001019	LOADERS,TANK CARS &/OR TRUCKS	33	35		1	1	
80001020	CONVEYOR OPERATORS OR TENDERS	138	158	3	3	6	
80002822	RIGGERS	31	32		1	1	
CLUSTER TOTAL		10,507	15,000	455	323	777	148

SK7-AUTO. & ENGINE MECHANICS

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	50080800	AUTO BODY REPAIRERS	345	397	5	5	10	
	50082803	CAR REPAIRERS	414	371	-3	12	9	
	50083202	BICYCLE REPAIRERS	46	59	1	1	2	
	50083207	GASOLINE ENGINE,MOWER REPAIRER	25	35	1	1	2	
	50083226	MOTOR BOAT MECHANICS	13	20	1		1	
	50083299	ALL OTHER MECHANICS & REPAIRER	352	398	5	9	14	
	61082605	FUEL PUMP ATTENDANTS,LUBRICAT	923	1,067	14	26	40	
	61082606	TIRE CHANGERS	265	315	5	8	13	
	61084201	PAINTERS,AUTOMOTIVE	99	119	2	2	4	
	61088423	VULCANIZERS,RUBBER PLATE						
	61088614	TIRE FABRICATORS,REPAIRERS	128	160	3	3	6	
CLUSTER TOTAL			2,610	2,941	34	67	101	261

SK8-MACHINE SHOP

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
50061008	SHEAR &/OR SLITTER SETTERS	13	17				
50061009	SETTERS, PLASTIC MOLDING Machine						
50061206	MACHINISTS	642	639		16	16	
50063001	TOOL & DIE MAKERS	14	17				
50081001	AUTOMOTIVE MECHANICS	2,469	2,919	45	56	101	
50144803	MACHINE SETTERS, WOODWORKING	49	60	1	1	2	
50144826	MUSICAL INSTRUMENTS REPAIRERS	12	14				
61020201	DRILL PRESS/BORING MACHINE OP						
61020600	GRINDING/ABRADING MACH OPS, METal	30	35	1	1	2	
61021006	LATHE MACH OPERATORS, METAL						
61021402	MACHINE TOOL OPERATORS, COMBO	29	41	1	1	2	
61021405	MACHINE TOOL OPERATORS, TOOL						
61080436	MACHINE ASSEMBLERS	20	25	1	1	2	
61081407	AUTOMATIC CLIPPERS, VENEER						
61081417	CUTTERS, PORTABLE MACHINE						
61081424	DIE CUTTERS, CLICKING MACH OPS						
61081430	MORTISING MACHINE OPERATORS						
61081442	SLITTER-CREASER-SLOTTER OPER						
61081452	TENONER OPERATORS	16	20				
61081803	DRILLERS, HAND	91	114	2	3	5	
61082401	FILERS, GRINDERS, BUFFERS, CHIPP	41	44		2	2	
61082410	SANDERS, WOOD						
61082411	SAW FILERS						
61085001	BAND SCROLL SAW OPERATORS						
61085804	PAPER REEL OPS, REWINDER OPS		10				

SK8-MACHINE SHOP

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	61085808	WINDERS, PAPER MACHINE	9	10				
	61086818	WOODWORKING MACHINE OPERATORS	67	81	1	1	2	
	61087014	FOURDRINIER MACHINE TENDERS	9	10				
	61087015	BACK TENDERS	9	10				
	61087027	LAYBOY TENDERS						
	61087039	TUBE MACHINE OPERATORS, BAGS						
	61087045	ENVELOPE MACHINE OPERATORS						
	61087053	BOTTOMING MACHINE OPERATORS	5	11	1		1	
	61087065	FOURTH/FIFTH HANDS, PAPER MACH	17	19				
	61088407	GRINDER OPERATORS	16	21	1		1	
CLUSTER TOTAL			3,558	4,117	54	82	136	31

SK9-METAL WORKING OCCUPATIONS

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10021400	METALLURGISTS & MET ENGINEERS	32	28				
50060200	BLACKSMITHS	21	16		2	2	
50060400	BOILERMAKERS	90	85		3	3	
50060600	HEAT TREATERS,ANNEALERS,ETC						
50061003	MACHINE TOOL SETTERS,METALWRK						
50061007	PUNCH PRESS SETTERS,METAL			1		1	
50061202	LAYOUT MARKERS,METAL						
50061804	MOLDERS,BENCH &/OR FLOOR						
50062203	PATTERNMAKERS,METAL						
50062204	PATTERNMAKERS,WOOD						
50062209	MODEL &/OR MOLD MAKERS	43	52	1	1	1	
50062600	SHEET METAL WORKERS	526	590	6	10	16	
61020401	TAPPERS,METAL	25	15				
61020405	CASTERS,INGOTS & PIGS	19	12				
61020407	STOVE TNDRS &/OR BL FUR KPRS						
61020435	POURERS,METAL	19	14				
61020436	FURNACE OPERATORS,CUPOLA TEND	65	42	-1	1		
61020438	FURNACE CHARGERS	15	9				
61021201	ELECTROPLATERS	40	28		1	1	
61021202	DIP PLATERS,NONELECTROLYTIC						
61021609	PUNCH PRESS OPERATORS,METAL		1				
61021611	POWER BRAKE,BENDING MACH OPS,	13	17				
61081459	SHEAR &/OR SLITTER OPERATORS,						
61083857	MIXERS,ORE & METALS	10	6				
61084605	RIVETERS,HEAVY						

SK9-METAL WORKING OCCUPATIONS

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	61085013	SAWYERS,METAL						
	61088236	POT TENDERS	102	63	-3	2	-1	
	61088286	ROLL FORMING MACH OPERATORS						
	61088805	CASTERS		1				
	61088835	POT LINERS	11	7				
	61088849	WAX PATTERN WORKERS	17	24	2		2	
	80001012	SAMPLERS &/OR TEST PREPARERS	12	18	1		1	
	80002801	SAND CUTTERS,MIXERS,SLINGERS						
	80002813	SHAKEOUT WORKERS,FOUNDRY						
	80002819	FURNACE OP HELPERS/HEATER	10	6				
CLUSTER TOTAL			1,070	1,034	7	20	26	72

SV1-INSTI. & BLDG SERVICE OCCU

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	61082812	RUG CLEANERS,HAND						
	61082813	RUG CLEANERS,MACHINE						
	70020600	JANITORS,PORTERS,& CLEANERS	9,228	11,980	275	402	677	
	70080616	HOUSEKEEPERS,HOTEL & MOTEL	202	282	8	12	20	
	70080801	BELLHOPS,BAG PORTERS,DRKPRS	67	89	2	3	5	
	70080803	BAGGAGE HANDLERS	63	86	2	2	4	
	70081800	ELEVATOR OPERATORS	11	15		1	1	
	80002401	CLEANERS,VEHICLE	337	391	5	9	14	
CLUSTER TOTAL			9,908	12,843	292	429	721	490

SV2-VEHICLE OPERATORS

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
20060801	CAPTAINS,WATER VESSEL						
20061200	CONDUCTORS,TRAIN	592	530	-5	21	16	
50120402	YARD ENGINEERS	225	192	-2	11	9	
50120403	HOSTLERS	38	34		2	2	
50120405	LOCOMOTIVE ENGINEERS	260	233	-2	13	11	
50120600	LOCOMOTIVE ENGINEER HELPERS	61	55		3	3	
62000200	MOTOR BOAT OPERATORS						
62000401	BUS DRIVERS	536	688	15	16	31	
62000402	BUS DRIVERS, SCHOOL	506	676	17	16	33	
62000801	DELIVERY & ROUTE WORKERS	2,441	2,864	42	51	93	
62001001	INDUSTRIAL TRUCK OPERATORS	870	1,061	19	13	32	
62001002	CARRIER DRIVERS	91	105	1	1	2	
62001202	DINKEY OPERATORS	13	14				
62001400	PARKING LOT ATTENDANTS	23	30	1	2	3	
62001600	RAILROAD BRAKE OPERATORS	903	806	-9	15	6	
62002001	AMBULANCE DRIVERS/AMB ATTEND	252	312	6	15	21	
62002004	TAXI DRIVERS	79	95	2	5	7	
62002007	CHAUFFEURS	34	38		2	2	
62002201	TRUCK DRIVERS	5,835	7,469	163	132	295	
63000000	ALL OTHER OPS & SEMISKILLED	1,886	2,383	50	49	99	
80001200	GARBAGE COLLECTORS	317	433	12	13	25	
CLUSTER TOTAL		14,962	18,018	310	380	690	86

SV3-BARBERING

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	70081000	BARBERS	149	170	2	12	14	
CLUSTER TOTAL			149	170	2	12	14	96

SV4-COSMETOLOGY

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10140600	EMBALMERS	40	43		1	1	
	70080602	MORTUARY BEAUTICIANS						
	70080607	FUNERAL ATTENDANTS						
	70082001	COSMETOLOGISTS/WM'S HAIRSTYLIsts	641	803	16	24	40	
CLUSTER TOTAL			681	846	16	25	41	283

SV5-CHILD CARE SERVICES

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	70081601	CHILD CARE ATTENDANTS	72	95	2	5	7	
	70081602	CHILD CARE WORKERS	700	979	28	48	76	
	70082600	SCHOOL MONITORS	200	247	5	16	21	
	70083000	WELFARE SERVICE AIDES	357	513	16	15	31	
CLUSTER TOTAL			1,329	1,834	51	84	135	1583

SV6-FOOD PROD., MGMT., & SERV.

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10100600	DIETITIANS &/OR NUTRITIONISTS	180	244	6	11	17	
50140202	BAKERS	184	210	3	6	9	
50140205	CAKE DECORATORS	20	23		1	1	
61081462	CUTTING MACHINE OPERATORS	84	88		2	2	
61083201	BONERS,MEAT	50	52		1	1	
61083204	BUTCHERS,ALL-AROUND	83	86		2	2	
61083205	CARCASS SPLITTERS	95	98		3	3	
61083856	MIXERS,FOOD & TOBACCO	34	36				
61086001	PICKLERS,FOOD						
61086003	PRESS OPERATORS,MEAT	32	33		1	1	
61086012	CASING FINISHERS &/OR STUFFER						
61086021	FLAVOR ROOM WORKERS,FREEZER	13	12				
61086026	DAIRY PROCESSING EQMT OPER	60	55		1	1	
61086029	CHEESEMAKERS	21	19				
61086033	MEAT GRINDERS	140	145	1	3	4	
61086035	COOKS &/OR COOKERS						
61086207	WASHERS &/OR SEPARATORS,FOOD						
61086221	PASTEURIZERS,MARGARINE						
61086258	DOUGHNUT MAKRS/DOUGHNUT MACH	43	48	1	1	2	
61086295	DRIER OPERATORS						
61089003	BAKER HELPERS	21	17				
61089007	CHEESEMAKER HELPERS	15	14				
61089009	COOLER ROOM WORKERS,MEAT.	44	45		1	1	
61089058	SKINNERS,ANIMAL	19	20				
70040200	BAKERS,BREAD &/OR PASTRY	246	296	5	8	13	

SV6-FOOD PROD., MGMT., & SERV.

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	70040400	BARTENDERS	1,823	2,301	48	44	92	
	70040600	DINING RM ATTNS,BAR HELPERS	1,577	2,103	53	22	75	
	70040802	COOKS,SHORT ORDER/SPEC FAST	1,934	2,511	58	81	139	
	70040803	COOKS,RESTAURANT	1,402	1,843	44	59	103	
	70040804	COOKS,INSTITUTIONAL	1,447	1,955	51	62	113	
	70041201	COUNTER ATTNS,LUNCHRM,COF SH	383	475	9	11	20	
	70041400	BUTCHERS &/OR MEAT CUTTERS	482	547	7	16	23	
	70041601	HOSTS/HOSTESSES,REST,LNGE,COF	399	525	13	15	28	
	70041602	WAITERS OR WAITRESSES	7,385	9,569	218	266	484	
	70041802	KITCHEN HELPERS	3,906	5,037	113	144	257	
	70041804	FD PREP & SERV WKRS,FAST FD R	3,975	5,226	125	147	272	
	70041805	PANTRY,SANDWICH,&/OR COFF MAK	453	595	14	17	31	
	70041899	ALL OTHER FOOD SERVICE WORKER	1,295	1,629	33	44	77	
	80002828	RAW CHEESE WORKERS						
CLUSTER TOTAL			27,845	35,857	802	969	1,771	305

TC1-POWER STATION OPERATORS

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	50120800	SWITCHBOARD OPS,GENERATING PL	64	67		3	3	
	50144004	AUXILIARY EQUIPMENT OPERATORS						
	50144014	STATIONARY ENGINEERS	242	271	3	8	11	
	61085602	STATIONARY BOILER FIRERS	331	368	4	15	19	
	61085612	FURNACE &/OR BURNER TENDERS	43	55	1	2	3	
	70080605	CREMATORS						
CLUSTER TOTAL			680	761	8	28	36	8

TC2-CIVIL TECHNOLOGY OCCU.

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10020600	CIVIL ENGINEERS	838	1,019	18	23	41	
	10022099	ALL OTHER ENGINEERS	329	348	2	6	8	
	10041000	GEOLOGISTS & GEOPHYSICISTS	226	301	8	8	16	
	10041400	PHYSICISTS	12	23	1		1	
	10060402	MATHEMATICIANS						
	10060403	ALL OTHER MATH SCIENTISTS	31	34				
	10060600	STATISTICIANS	59	65	1	2	3	
	10081200	MATHEMATICAL TECHNICIANS						
	10081600	SURVEYORS	833	988	16	19	35	
	10081804	OBSERVERS,ELEC PROSP/GRAV PRO	11	21	1		1	
	10081816	CIVIL ENGINEERING TECHNICIANS	113	190	8	2	10	
	10081898	ALL OTHR ENGINEERING TECH.	644	684	4	10	14	
	10081899	ALL OTHER SCIENCE TECHNICIANS	2,170	2,446	28	36	64	
	61081000	SURVEYOR HELPERS	202	345	14	8	22	
CLUSTER TOTAL			5,468	6,464	101	114	215	47

IC3-CHEMICAL TECHNOLOGY OCCU.

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
10020400	CHEMICAL ENGINEERS	55	70	2	1	3	
10040800	CHEMISTS	298	356	6	5	11	
50142205	TESTERS	94	95		3	3	
61083620	GAGERS	30	28		1	1	
61083802	REAGENT OPERATORS						
61083855	MIXERS/BLENDERS,CHEMICALS	26	34	1	1	2	
61086224	REFINERY OPERATORS	36	27		1	1	
61087011	EVAPORATOR OPERATORS,PAPERMAK						
61087020	BLEACHER OPERATORS,PULP						
61087021	DIGESTER OPERATORS						
61087288	CHEMICAL OPERATOR HELPERS						
61087290	CHEMICAL OPERATORS A						
61087291	CHEMICAL OPERATORS B	47	59	1	1	2	
61087295	CHIEF OPERATORS	54	88	3	1	4	
61087409	CONTROL PANEL OPERATORS,PETRO	68	68		1	1	
61087810	TANNING DRUM OPS/COLORERS,HID						
61088240	SLIME PRESS & FILTER OPERATOR						
61088296	PRECIPITATOR OPERATORS						
61088405	FILTER/FILTER PRESS OPERATORS						
61088415	LAMINATORS,PREFORMS	67	121	5	2	7	
61088625	REFINERY OPERATORS,PETROLEUM	94	94		2	2	
61089067	REFINERY OPERATOR HELPERS,PET	12	13				
61089206	NAT GAS TREATING UNIT OPER	10	20	1		1	
CLUSTER TOTAL		891	1,073	19	19	38	4

TC4-ENVIRONMENTAL CONTRL TECHN

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10021600	MINING ENGINEERS	50	73	2	7	9	
	10021800	PETROLEUM ENGINEERS	58	100	4	1	5	
	10022003	TRAFFIC ENGINEERS	23	27				
	10040400	METEOROLOGISTS	30	29		1	1	
	10081809	SCOUTS	9	18	1		1	
	10081813	TRAFFIC TECHNICIANS	25	29		1	1	
	10181000	URBAN AND REGIONAL PLANNERS	96	121	3	2	5	
	10243804	SAFETY INSPECTORS	13	14				
	10243823	BLDG INSPECTORS,FIRE INSUR						
	20040400	CONSTRUCTION INSPECTORS	174	201	3	11	14	
	50144013	SEWAGE PLANT OPERATORS	183	234	5	7	12	
	50144019	PUMP STAT OPERATORS,WATERWORK	14	17				
	50144025	WATER TREATMENT PLANT OPER	151	186	4	5	9	
	61087064	BROWN STOCK WASHERS,BLOW PIT	9	10				
	61088248	DUST OPS/ORE CRUSHING DUST CO						
CLUSTER TOTAL			835	1,059	22	35	57	23

TC5-MECHANICAL TECHNOLOGY OCCU

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10021200	MECHANICAL ENGINEERS	211	291	8	5	13	
	10081400	MECHAN ENGINEERING TECHNICIAN	11	12				
	50081803	ENGINEERING EQUIPMT MECHANICS	518	624	11	12	23	
CLUSTER TOTAL			740	927	19	17	36	7

TC6-INSTRUMENT TECHNOLOGY OCCU

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10020800	ELECTRICAL ENGINEERS	453	584	13	6	19	
	50083206	ELECTRICAL INSTRUMENT REPAIR	11	11				
	50083212	LOCKSMITHS						
	50083221	INSTRUMENT REPAIRERS	169	178	1	4	5	
	50142206	TECHNICAL OPERATORS,OIL & GAS						
	50142402	WATCHMAKERS	17	23	1	1	2	
	50142408	GEM CUTTERS		2				
	50143002	OPTICIANS,DISP &/OR OPTIC MEC	45	64	2	1	3	
	50148401	JEWELERS &/OR SILVERSMITHS	35	48	1	2	3	
	61088803	BENCH HANDS,JEWELRY		2				
CLUSTER TOTAL			730	912	18	14	32	16

1C7-TEXTILE TECHNOLOGY OCCU

OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
50080600	AUTO SEAT COVER,TOP INSTALLER	12	15				
50141000	MERCHAN DISPLAYERS & WIND TRM	46	51	1	2	3	
50143602	SHOE REPAIRERS	15	19		1	1	
50144401	ALTERATION TAILORS	153	181	3	5	8	
50144402	CUSTOM TAILORS						
50144601	FURNITURE UPHOLSTERERS	41	53	1	1	2	
50144602	CUSHION MAKERS	11	17	1		1	
50144603	SPRINGERS						
50144604	UPHOLSTERY TRIMMERS						
50144605	UPHOLSTERERS	11	17	1		1	
50144606	UPHOLSTERY CUTTERS	9	14	1		1	
61040402	KNITTERS,FULL FASHIONED GAR						
61040622	BEAMERS,HAND OR MACHINE						
61041028	FOLDERS,HAND						
61080419	ASSEMBLERS	424	603	18	10	28	
61081201	PRESSERS,HAND	18	16				
61081202	PRESSERS,MACHINE	49	47		1	1	
61081203	PRESSERS,MACHINE,LAUNDRY	279	317	4	9	13	
61081403	CUTTERS,MACHINE						
61081600	SEWERS,CUSTOM	9	12		1	1	
61082801	MARKERS,CLASSIFIERS,ASSEMBLER	79	76		3	3	
61082802	SPOTTERS,DRYCLEANING						
61082803	SPOTTERS,WASHABLE MATERIALS						
61082804	WASHERS,MACH &/OR STARCHERS	245	334	9	11	20	
61082805	TUMBLER OPERATORS	26	24		1	1	

TC7-TEXTILE TECHNOLOGY OCCU

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	61082806	DRYCLEANING MACHINE OPERATORS	22	20		1	1	
	61082809	LAUNDRY OPERATORS,SM ESTABLHM	111	145	3	5	8	
	61082818	FOLDERS,LAUNDRY	44	40		2	2	
	61085204	MENDERS	26	24		1	1	
	61085205	SEWING MACH OPS,REG EQMT,NONG	52	71	2	2	4	
	61085206	BAG SEWERS						
	61085215	SEWING MACH OPS,SPEC EQMT,NON	51	87	4	2	6	
	61085219	SEWING MACH OPS,SPEC EQMT,GAR	10	15	1		1	
	61085220	SEWING MACH OPS,REG EQMT,GARM	10	18	1		1	
	61089221	DRAPERY & UPHOLSTERY MEASURER						
CLUSTER TOTAL			1,753	2,216	50	58	108	41

TC8-COMMERCIAL AVIATION OCCU

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10140200	AIRPLANE PILOTS	101	133	3	1	4	
	10140400	AIR TRAFFIC CONTROLLERS	142	138		1	1	
	50080400	AIRCRAFT MECHANICS	176	196	2	2	4	
	61088817	FABRICATORS, PLASTICS	15	20	1		1	
	62001800	TOWER OPERATORS	24	22		1	1	
	80002830	LINE SERVICE ATTENDANTS	69	88	2	3	5	
CLUSTER TOTAL			527	597	8	8	16	78

TC9-INDUSTIAL ENGINEERING OCCU

	OES MATRIX CODE	OES MATRIX TITLE	CURRENT EMPLOY MENT-1980	PROJ EMPLOY MENT-1990	AVERAGE GROWTH	AVERAGE REPLACE MENTS	AVERAGE ANNUAL OPENINGS	SUPPLY
	10021000	INDUSTRIAL ENGINEERS	162	179	2	3	5	
	10081000	INDUSTRIAL Eng. Tech.						
	50142202	INSPECTORS	194	178	-1	7	6	
CLUSTER	TOTAL		356	357	1	10	11	3
GRAND	CUM.		277,345	342,829	6,606	9,557	16,159	9,452

700 copies of this public document were published at an estimated cost of $2.29 per copy, for a total cost of $1,603.56, which includes $1,503.56 for printing and $100.00 for distribution.